



THE UNIVERSITY OF
WESTERN AUSTRALIA
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Uniview

Vol. 30 No. 1, Summer 2011



Waltzing the Wilarra

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*Jacque Sprogoe
Past President
Jewellers and Metalsmiths
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Uniview

THE UNIVERSITY OF WESTERN AUSTRALIA

Vol. 30 No. 1, Summer 2011

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Cover image: (left to right) Trevor Jamieson, Ernie Dingo and Irma Woods in the Perth Festival production of *Waltzing the Wilarra* (see *In Focus*).

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Recording a visual history

Rock paintings from Mawarndarlbarndarl rock shelter depicting li-jakarambirri (Blue-Ring Octopus or 7 Sisters Star Constellation).
Photo: Liam Brady.

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Staying a step ahead of the cleverest parasite

PhD student Rina Wong's research has uncovered some promising leads for potential new treatments she hopes will benefit the children of PNG.

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Waltzing into the Festival spotlight



(Left to right) Irma Woods, Ernie Dingo and Trevor Jamieson in *Waltzing the Wilarra*

Apart from bringing the best of international theatre to our doorstep, the UWA-based Perth Festival provides a showcase for our home-grown theatre. And a production that captures the upbeat spirit of the annual festival (that began on campus in the 1950s) is *Waltzing the Wilarra*, featured on the cover of this issue.

This 2011 production marks the revitalisation of the local Yirra Yaakin Theatre Company which has won awards for its productions, governance and partnerships.

Drawing on the talent and expertise of Aboriginal artists in almost all areas, it is considered a landmark production in Western Australian theatre. The creative team brings together local writer David Milroy, the award-winning author of *Windmill Baby*, director Wesley Enoch (*The Sapphires*), Jake Nash (Design) and Simon Stewart (Associate Choreographer). Both David Milroy and Wesley Enoch are winners of the Patrick White Playwrights Award. Lead roles are performed by Ernie Dingo, Trevor Jamieson, Kelton Pell, Ursula Yovich and Irma Woods.

Waltzing the Wilarra moves between post-war and present-day Perth, inviting audiences into the intimacy of a club offering live music, stand-up comedy, dancing and the possibility of romance. It also provides a glimpse into the world beyond the bright lights and into the lives and family dramas of the major characters.

This new work is David Milroy's musical theatre take on the meaning of reconciliation.

Waltzing the Wilarra opens just after World War II when a shattered world is remaking itself, and there is a sense that anything is possible. That feeling permeates a Perth where segregation is part of the fabric of government policy and everyday life.

The play follows the fortunes of a group of people who form a club to help knit together a fractured community. In its confines, black and white soldiers who fought together can spend time reminiscing about their wars and Aboriginal people – excluded from the CBD after 6pm – can listen to music, enjoy themselves and forget the realities of living in a town bound by an unofficial apartheid.

Author David Milroy has drawn on recorded experiences, his own research and family oral histories to produce a memorable cast of characters.

"Against a backdrop of curfews and fear of arrest for consorting, white and black manage to form their own club, a place where for a night they can forget their worries," says David Milroy. "Forty years on, the club faces demolition and the characters meet again for a musical reunion in an attempt to save their own stomping ground."

"As the trio reflect upon loves lost and found, old arguments and alliances resurface and we discover that reconciliation is more than saying sorry. Finding another level of forgiveness is at the heart of *Waltzing the Wilarra*."

Kyle Morrison, Artistic Director of Yirra Yaakin, believes the production is important to the future of Indigenous theatre beyond Western Australia. "If we can inspire the youth of our Indigenous communities to believe in themselves and their stories, then we will be able to reap the benefits for many years to come," he says.

Yirra Yaakin is Australia's leading Indigenous theatre company. In 15 years it has delivered 36 new works, employed more than 500 Aboriginal theatre workers and reached more than 400,000. This production, currently playing at the Subiaco Arts Centre, runs until 6 March.

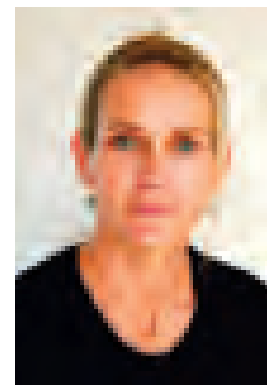
Graduate is part of the Yirra Yaakin team

A member of the Yirra Yaakin production team is UWA graduate Sally Richardson who honed her skills with the University Dramatic Society and has since worked as writer, director, producer and dramaturg (her role in this production) both nationally and internationally. She has worked with David Milroy on a range of projects over many years.

Black Swan Theatre Company, Sydney Theatre Company, The Flying Fruitfly Circus and The Malthouse (Melbourne) are among the companies that have benefitted from Ms Richardson's commitment to performing arts over 20 years. In 2009 she won a prestigious Helpmann Award as writer/director of *The Promise*.

The graduate's expertise has been acknowledged with an Australia Council Dramaturgy Fellowship in 2006, a State Government Creative Arts Fellowship in 2008 and many awards. Recently she was the Australian representative dramaturg for the New Visions, New Voices International Festival at the Kennedy Centre for Performing Arts in Washington DC.

Productions of her works have been seen in the Perth International Arts Festival, in Melbourne and Sydney and internationally in China, South America and Canada. Her production of the Perth Festival's *The Drover's Wives* was featured in both the Shanghai and Beijing International Festivals.



UWA graduate
Sally Richardson

Promoting future business leaders



Professor Tracey Horton

The UWA Business School is committed to providing a vibrant student experience and a new partnership with one of Australia's major banks, the ANZ Banking Group, is targeting that commitment by opening doors to the region.

A key component of the partnership is the creation of the ANZ UWA Business School Asia Fellowships that will allow recipients to spend six months on exchange at the Business School or a partner university in the Asia-Pacific region, followed by a 12-week paid internship at an ANZ office in the exchange location.

Recently the Dean of the Business School, Professor Tracey Horton and UWA's Senior Deputy Vice-Chancellor, Winthrop Professor Bill Loudon, formalised the partnership with Mr Shayne Elliott, ANZ Global Head of Institutional Banking and Mr John Atkins, Chairman of ANZ WA.

"Collaborating with ANZ on these fellowships allows us to strengthen our links with quality business schools and the finance sector in our region," says Professor Horton. "Already, 27 per cent of our student body originates from the region, so the fellowships create an exciting educational, cultural and work experience for students who demonstrate leadership attributes and are interested in pursuing a career in banking."

The agreement has also been welcomed by the bank. "Perth is located

in the same time zone as Jakarta, Singapore, Hong Kong, Beijing, Tokyo and Mumbai," said Mr Atkins. "The UWA Business School attracts excellent students willing to travel, live and work in the region, so we view this partnership as an investment in the future business leaders who will continue to drive our economic engagement with Asia."

The mutually beneficial partnership will see Fellowship recipients leave for the University of Hong Kong School of Business in early 2012.

Graduate in line for Oscar

Author/illustrator Shaun Tan's book *The Lost Thing* has been turned into a short animated film that could be in line for an Oscar. It was one of 10 films shortlisted for the Academy Awards. Recently the film directed by the UWA graduate and Andrew Ruhemann won the best Australian film award at the Flickerfest short film festival. During his student days, Shaun Tan produced many brilliant illustrations for *Uniview*, one of which we reprint with our article on addition on page 22.



Simply the best!



W/Professor Mike Tobar, W/Professor Eric May and Chief Scientist of WA, Professor Lyn Beazley with WA Hall of Fame Inductee Professor Fiona Stanley

There is no shortage of inspiring role models working in key areas of frontier science at UWA. A roll-call of the University's top scientists regularly dominates the State's 'science Oscars' and the 2010 Western Australian Science Awards late last year were no exception.

Winthrop Professor Michael Tobar, an Australian Research Council Laureate Fellow in the School of Physics, was named Scientist of the Year while Winthrop Professor Eric May, UWA's first Chevron Chair in Gas Process Engineering, earned the title Early Career Scientist of the Year.

With high-quality, super-accurate clocks and oscillators at the core of a range of technological tools from GPS and radar to telecommunications, Professor Tobar's work on precision measurement has set a new pace in accurate time measurement.

His research with colleagues in the Frequency Standards and Metrology Research Group has stirred international interest and has led to the development of an array of instruments including the sapphire oscillator, which gives the most exact

measurement of time developed to date. Research undertaken by Professor Tobar and his colleagues is also testing the very fundamentals that underpin physics.

Western Australia's booming energy resource sector is seeing the benefits of research by W/Professor Eric May, who describes his field as 'fluid science for the next generation of natural gas engineering'. Combining several aspects of engineering, physics and chemistry, it's a field that doesn't fit readily into a single traditional discipline.

W/Professor May has developed breakthrough techniques for measuring gas properties under extreme conditions. This provides critical data to advance computer models used to design and optimise gas processing plants.

Also honoured at the WA Science Awards was Professor Fiona Stanley, Professor of Paediatrics and Child Health at UWA and founding director of the UWA-affiliated Telethon Institute for Child Health Research. The passionate child health advocate was inducted into the Western Australian Hall of Fame.

Festival farewells



Sherry Hopkins

In this issue we invited Artistic Director Shelagh Mgzda to reflect on her nine-year association with the Perth Festival, and to highlight some of the events still to come.

Ms Mgzda mentions the audience growth for the Lotterywest Festival Films and the fact that this is also the last Festival for Sherry Hopkins.

While outdoor cinemas are mushrooming in Perth, nothing seems to deflect the loyal fans who converge on the Somerville Auditorium and Joondalup Pines with their picnic hampers as the sun slips away. Perhaps it's the entertaining and sometimes challenging program – films that become the currency of conversation around late night dinners or coffee cups.

"It's very social," Ms Hopkins has said. "You can't go to a dinner party on a Saturday night if you haven't seen the Somerville film because everyone will be talking about it!"

If you just have to be in on the film talk, check out the program: perthfestival.com.au/lotterywest-festival-films

A literary long weekend



Cover of *The Imago*

UWA is delighted to host the Perth Writers Festival (4 – 7 March) over a long weekend that promises readings, talks, workshops and the perennially popular Family Day – and UWA Publishing is pleased to have 10 writers featured in the program.

The festival will feature titles by Raimond Gaita (*Gaza: Morality, Law and Politics*), author of the prize-winning memoir *Romulus, My Father*; Fiona McGregor (*Strange Museums: A Journey Through Poland*), Simone

Lazaroo (*Sustenance*), Kate Lilley (*Selected Poems of Dorothy Hewett*), Victoria Laurie (*The Kimberley: Australia's Last Great Wilderness*), Amanada Curtin (*The Sinkings*) and Richard Rossiter (*Arrhythmia: Stories of Desire*).

Also featured are 2011 titles by Toby Davidson (*Francis Webb: Collected Poems*), Ian Reid (*The End of Longing*) and Suzanne Falkner (*The Imago: E. L. Grant Watson and Australia*). More details are available on the Perth Writers Festival website: www.perthfestival.com.au/pwf

Do the maths

When she became Western Australia's Scientist of the Year in 2009, Australia's most highly cited pure mathematician, Winthrop Professor Cheryl Praeger, observed that the award highlighted a discipline considered indispensable for our technological society.

"Today virtually every area of our lives depends on the mathematical sciences – from healthcare to telecommunications, from understanding climate change to making secure financial transactions," said the celebrated mathematician.

The UWA professor who likes to quote the Greek philosopher Pythagoras – "Mathematics is the way to understand the universe" – is pleased that UWA has designated 2011 as the Year of Mathematics.

At a Symposium in November, UWA's Dean of the Faculty of Education, Winthrop Professor Helen Wildy, said the year would be a celebration of mathematics and the powerful role it plays in everyday lives. It would also highlight the urgent need for maths teachers to inspire a new generation of graduates.

Even before the Year of Mathematics had been launched, more than 320 of the State's best young mathematicians from 45 schools participated in the WA Junior Mathematics Olympiad at UWA. As prizes were awarded, W/Professor Praeger observed that while outstanding achievers had been recognised, the students had also learned how much fun maths could be.

During the November Symposium, teachers had a chance to meet Dr Pantazis Houlis, a Research Associate in the School of Civil and Resource Engineering, who believes



Winthrop Professor Cheryl Praeger watches on as Minister for Education, Dr Elizabeth Constable, presents Michael Tang (Year 9, Rossmoyne Senior High School) with an Award of Excellence at last year's WA Junior Mathematics Olympiad (Photo: Steve's Photography)

that puzzles can be a useful teaching tool. A successful designer of puzzles marketed internationally (one of his designs was voted in the top 10 at the IPP International Puzzle Design Competition), the UWA researcher told his audience that when unravelling colourful 3D brain-teasers, students were unconsciously engaging with mathematics.

Dr Houlis recently organised the State's first official World Cube Association Speedsolving competition at UWA. The graduate is president and founder of the UWA Mechanical and Mathematical Puzzle Club which is open to students, graduates and the wider community. If you'd like to know more, visit the website: www.clubs.guild.uwa.edu.au/clubs/mmpc/

If you'd like to know more about the UWA Year of Mathematics, go to the website: www.maths.uwa.edu.au/community/year-of-maths

Autumn at Extension

UWA Extension's autumn program promises to inspire, stimulate and absorb.

Film enthusiasts will relish the chance to critique and celebrate the works of influential directors from past and present, from Hong Kong to Hollywood and from the dark genius of Orson Welles to the dynamic style of Ang Lee. With Michelle Spragg and Danica van de Velde (from Arts and Humanities at UWA) as guides, you'll learn about the artistry that distinguishes these directors, the ideas that inspired them and the impact their films continue to have. *Film Club – directors who changed film forever* runs through March and into April.

In March, Dr Zohi de Ishtar, CEO of the Kapululangu Aboriginal Women's Association, runs a seminar designed for people who want to actively 'close the gap' (*Keeping Aboriginal Women's Culture Alive*) while UWA's Dr John Fitzpatrick talks about the costly business of sex from an evolutionary perspective (*The origin of sex*).

In May, author, researcher and social justice advocate Celia Lashlie talks about the challenges facing adolescent boys in *He'll be OK: Growing Gorgeous Boys into Good Men*. And there's a lot more. Check out the full program at: www.extension.uwa.edu.au

Taking music to the hills



UWA's Professor Graeme Gilling, Semra Lee and Jon Tooby

Spreading the sound of music through the hills is a group of UWA School of Music musicians, teachers and graduates who initiated a chamber music series in the Darling Range – an area not well served by classical music.

Centred on an historic stone village hall (once a wine cellar), the Darlington Chamber Music Series is now in its fifth year and it has galvanised hills music-lovers. Local community groups fund-raised to purchase a grand piano and regularly fill the hall to capacity during the May to October season. And when the group faced financial difficulties following the global financial crisis, a local philanthropist came to the rescue.

Having proved its viability, the Darlington Chamber Music Series now enjoys the support of the Department of Culture and the Arts, Mundaring Shire and the Mundaring Community Bendigo Bank.

The series was initiated by former WA Symphony Orchestra cellist and UWA teacher Jon Tooby who joins regular performers UWA graduate/teacher Professor Graeme Gilling (piano) and teacher/violinist Semra Lee.

Guest performers for the forthcoming season include Sagezza, a tango group formed by UWA teacher/composer Cathie Travers and the program includes the commissioned *Inscriptions* by composer/graduate/teacher James Ledger, along with core works in the chamber music repertoire.

Having performed with major orchestras, Jon Tooby believes chamber music is particularly rewarding for musicians. "I think it has something to do with the fact that you choose both like-minded musicians and the music," he says. "It seems to me that magical moments in music are more possible and more frequent for chamber music groups."

Legacy of a prudent purchase



Guy Grey-Smith, Rottnest, 1954-57, oil on canvas, The University of Western Australia Art Collection, Tom Collins Bequest Fund, 1957, © The University of Western Australia

There is still time to see *Tom Collins, and after: a bequest and its legacy* which runs at UWA's Lawrence Wilson Art Gallery until 27 February.

It's an incredible reflection of the power of one: how a single bequest laid the foundations for a great public art collection.

Gallery director John Barrett-Lennard observes that in 1953 the University purchased a dozen paintings by Sidney Nolan for five hundred pounds, money that came from the Tom Collins Bequest.

"It was a bold move and highly controversial at the time," he says. "Over the next two decades more than 40 further works were acquired with the support of this important bequest – and the University was well under way in establishing one of Australia's great public art collections."

The exhibition featuring works by key artists of the period provides a significant snapshot of post-war Australian art and the State's developing cultural life. Through the work of Nolan and his contemporaries, including Arthur Boyd, John Perceval, Fred Williams, Leonard French, Charles Blackman and others, the University made available new visions of Australia and the Australian experience. And through the works of Guy-Grey-Smith, Elizabeth Durack, Brian MacKay, Robert Juniper and others, the University brought WA artists and experience into the mix. These works have since been seen by tens of thousands of visitors, students and staff.

Keep an eye out for the Gallery's next exhibition, *reconnaissance* (13 March–24 April), which includes paintings, photography, sculpture and video-installations by a number of Australian artists engaged with social and political issues of international significance.

Book wins high praise

Emeritus Professor Laksiri Jayasuriya's most recent book *Taking Social Development Seriously: the Experience of Sri Lanka* charts the development of social policy in the troubled tropical island in which the UWA academic grew up.

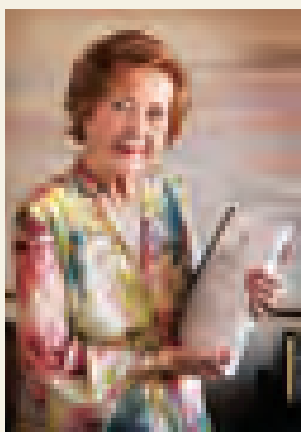
Sri Lanka's shift from a country with a unique social welfare structure to one marked by division between Sinhalese and Tamils and protracted civil war is the subject of the Sage publication. The author won high praise from

James Wolfensohn, former World Bank president, for his analytical skills, deep scholarship and analysis of Sri Lanka.

"This work is unique in the way it takes a scholarly view of the experience of his own country to provide us with an overview of global social development in the last two centuries, while outlining the challenges which face us in the decades ahead," observed James Wolfensohn.

Professor Jayasuriya was Foundation Chair of Social Work and Social Administration at UWA.

Turning a life's work into a PhD



Graduate Marcia Foley
(Photo © The West Australian)

The lifelong learning promoted by UWA Extension is increasingly appealing to those who may have completed their initial tertiary studies decades ago.

The Graduate Research School and UWA Extension are encouraging more mature age people to consider enrolling in PhDs. "It's never too late to follow your dream," is the message from UWA.

The topic and structure of studies can be tailored to individual needs and interests and there are

flexible entry pathways. PhD studies offer students the chance to follow a research interest under the supervision of world-class experts.

In this issue we feature two people who are doing just that. Writer Michael Crouch (see *The luckiest chap alive!*) is currently researching the life story of his grandmother while at 87 Marcia Foley recently completed her doctorate. At one stage during her studies there were three generations of her family studying at UWA.

This great-grandmother made the history of social work in mental health in WA the focus of her thesis. Having spent 30 years as a professional mental health social worker, Marcia Foley tracked the changes that her profession has seen.

The UWA graduate was awarded her first degree, a BA, in 1947. Then, with her children at school, she returned to study, being accepted into the first postgraduate Social Work Diploma course offered through UWA's Psychology Department.

She worked as a mental health social worker in both government and private practice and in the 1990s returned to study for an M.Phil in Women's Studies.

Retirement saw her begin work on a PhD exploring the profession she had served during a period when social work became recognised as a profession in its own right.

"I wanted to do a closer inquiry into the origins of social work in mental health. My thesis covered the period from 1959 to 1999 and I found that during that time professional practice changed considerably, but I have mixed feelings as to whether things improved or not," she says. "Many challenges remain to be taken up by a new generation."

If you would like to know more about studying for a PhD at UWA, visit: www.studyat.uwa.edu.au/postgrad/doctorates

Addressing 21st century challenges

Producing active citizens and leaders who can engage with the challenges and opportunities of the 21st century is the aim of UWA's Centre for Integrated Human Studies which is now offering its interdisciplinary first-year units.

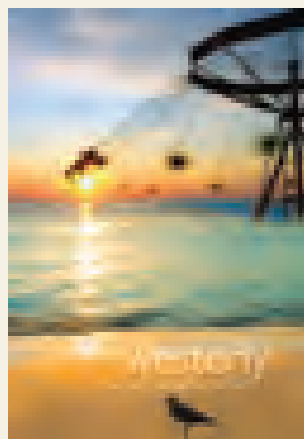
Integrated Human Studies is a new field of education that brings together the sciences and the arts. The courses offered address issues relating to living in the 21st century and contributing to communities, professions, human well being and a sustainable future.

First year units are *Humanity in the 21st Century* and *Human action for World Futures*. For more information visit: www.ihs.uwa.edu.au

The Centre's Karen Connolly, says delivery of the units is by blended mode, part online and part face-to-face on campus. However, a fully online mode is available for students in remote locations.

"One of the great aspects of the units is they introduce students to interdisciplinary research modes and act as a 'taster' for various disciplines," says Ms Connolly.

Westerly's focus on local writers



The Westerly cover

The latest issue of *Westerly* remembers two fine Western Australian writers who passed away in 2010. There is a previously unpublished poem by Alec Choate and a tribute to Randolph Stow that includes two unpublished poems.

Westerly is published by UWA's Westerly Centre and editor, A/ Professor Delys Bird, says this issue has a particular focus on Western Australian writing. "It's a fabulous

issue featuring well-known and newer writers. The stories are particularly strong, as is the poetry and there's some fascinating material on Randolph Stow's life and work."

The Westerly Centre is planning a symposium, *Creative Writing and its Contexts* to honour the distinguished career of Winthrop Professor Dennis Haskell who was editor of *Westerly* for decades. It will be held at UWA on 17 and 18 February. For more information, visit the website: www.westerlycentre.uwa.edu.au

The literary magazine can be purchased through the website and at the Co-op Bookshop and major book stores.

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“Nothing can be done without hope and confidence”*



The start of 2011 in Australia and around the world was marred by a series of disasters and tragedies, some deliberately caused. They included the devastating floods in eastern Australia and in the north of our own State, and bushfires in the Perth metropolitan area.

Scenes of extraordinary courage and selflessness in the face of these disasters reminded us of all that is wonderful about humankind – surely a cause for optimism.

A university is ideally a place in which optimism is harnessed and directed towards the wellbeing of communities, local, national and international. Certainly, researchers require optimism to go searching for answers that may prove elusive. They also require support to embark on such challenging quests.

So we are pleased to enter 2011 with the financial support that gives us confidence in the future. For example, in the latest Australian Research Council (ARC) funding round, our University secured more funding than any other Australian university.

Our University received more than \$22.4 million for 10 UWA projects under a Federal scheme to support high-quality, large-scale research projects with collaborating organisations, including national and international universities, industry and government organisations. And we are involved in another nine projects administered by other universities around the nation.

By working in partnership with government and industry we can ensure that UWA research has widespread benefits.

In addition to the ARC funding, we were recently awarded almost \$20 million in grants for medical research, through the National Health and Medical Research Council. The research will be carried out by staff of our University and affiliated institutes such as the Telethon Institute for Child Health Research and the Western Australian Institute for Medical Research.

Health and medical research funding is crucial in supporting our efforts to tackle the pressing health and medical issues of our time, helping us, for example, to determine the genesis of disease, the management of health and sickness, and cures for medical conditions that decrease life expectancy or diminish quality of life.

These grants provide very positive recognition of the key role played by our researchers in making positive impacts on the lives of people everywhere.

These and other achievements – both institutional and individual – throughout 2010 mean we move into 2011 with renewed optimism.

Centenary update

You may be aware that 1911 was the year in which our University was established as Western Australia's first university, and the first free university in the British Empire, actively promoting equal access to tertiary education across all social classes. This occasion was marked by a dinner in Winthrop Hall on 14 February to mark our foundation 100 years ago.

Our Centenary celebrations will take place in 2013, a century since our University opened its doors to our first 184 students who were housed in wooden buildings in what is now Perth's central business district. From those humble beginnings, we have grown into a major institution managing an annual budget of around \$760 million a year, a staff of around 3,400 and a student population of more than 21,000 drawn from more than 80 countries.

Our *Uniview* readers are among more than 100,000 graduates who have left our University since its inception. Through your efforts in every field of human endeavour, from arts to zoology, you have made enormous contributions.

Alan Robson
Vice-Chancellor

*Helen Keller described optimism as “the faith that leads to achievement. Nothing can be done without hope and confidence.”



Recording a visual history

Australia's spectacular rock-art sites have been described as possibly "the longest continuously updated historical record on the planet". On the walls of caves and rock shelters are the symbols and stories that unified clans, marked territory and reflected strong spiritual connections to country. Trea Wiltshire reports.

With some 100,000 documented rock-art sites in Australia – and many as yet undiscovered – UWA is responding to the need to document, conserve and protect the nation's rich cultural heritage. To position it in the forefront of this increasingly important area, the University has established a Centre for Rock-Art Studies that builds on its acknowledged rock-art expertise.

Acting Centre Director Professor Jane Balme said few landscapes offered as much tangible evidence of human history as the Pilbara and Kimberley regions.

"Researchers and the wider community have an extraordinary opportunity to learn more about the rich human histories associated with rock-art," said Professor Balme.

The Centre aims to ensure that this State is recognised as a global leader in rock-art research, preservation and management. It will also raise cultural awareness of the significance of this heritage

and provide a focal point for advice on research-related activities including tourism, conservation, training and dating.

Writing about the State's rock-art sites, the *Australian Financial Review* has observed:

"Many of the estimated one million engravings spread across the Dampier archipelago are far older than celebrated world landmarks such as France's Lascaux caves, Egypt's pyramids, England's Stonehenge, Cambodia's Angkor Wat, China's Great Wall or Indonesia's Borobudur. Yet these engravings remain, in a practical sense, largely unprotected; there are few patrols by rangers and the rocks have been subject to vandalism and theft..."

*Above: Kangaroo, Djulirri, Western Arnhem Land
Next page: A depiction of people in a boat with long attached line for fishing, Djulirri, Arnhem Land, and (inset) researchers examining rock-art in an overhang, Wellington Range, Arnhem Land (Photos: Rick Stevens)*

An interdisciplinary collaborative hub, the Centre involves Archaeology, Indigenous Studies, Chemistry, Fine Arts and the UWA Energy and Minerals Institute. UWA has considerable expertise and significant networks and infrastructure to underpin research in this area including the Berndt Museum of Anthropology, the Lawrence Wilson Art Gallery, the Western Australian Supercomputer Project with its 3D visualisation laboratories, GIS and remote sensing laboratories, and mass spectrometry and isotope mass spectrometry laboratories.

The University's archaeologists are currently working on sites throughout Queensland, Western Australia and the Northern Territory and have excavated some of Australia's oldest sites. Among its experts are leaders in the development, refinement and application of digital recording and enhancement techniques of heavily deteriorated rock-paintings.

In November the University and the philanthropic body Kimberley Foundation Australia joined forces to protect the region's spectacular rock-art. Their agreement aims to support long-term research programs, collaborate with Indigenous groups, seek support from the corporate and Government sectors and advocate for the heritage value of rock-art.

Collaborating to preserve a rich heritage

A fascination with Australia's rock-art galleries – that draw researchers and travellers from across the world – led Liam Brady to UWA's new Centre for Rock-Art Studies. The Canadian-born researcher says there is nothing to beat the sheer excitement of clambering into a long lost gallery of rock-art – and he's convinced there are many still undiscovered and undocumented.

Archaeologist Dr Liam Brady's interest in rock-art was initially stirred by visiting Kakadu National Park in the Northern Territory where the Canadian graduate encountered paintings and engravings of kangaroos, sharks and dugongs that encouraged him to consider postgraduate studies in Australia.

Dr Brady was immediately struck by the variety of styles and techniques used to create Australia's rock-art. These range from the use of beeswax to create art in rock shelters in Arnhem Land to the unique Gwion Gwion (Bradshaw) rock-art of the Kimberley. The latter's distinctive figures have become the focus of debate in archaeological circles and were the subject of a UWA workshop last October. Dr Brady believes the theory that they were painted prior to Aboriginal settlement has now been thoroughly discredited.

"Australia is one of the world's key centres for rock-art research because of the rich ethnographic

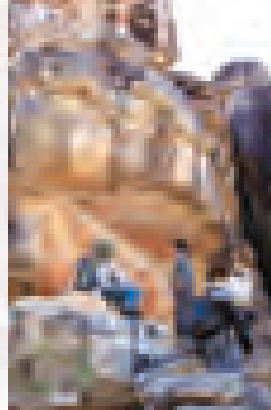
record collected over the years from Indigenous communities," says Dr Brady. "This invaluable perspective from traditional owners adds another layer of understanding and insight.

"We're also fortunate that in places like the Northern Territory, the Kimberley, and Queensland we're still able to listen to stories about those who created some of the works – indeed there are still paintings and engraving being made today in many places across northern Australia.

"Integrating Indigenous knowledge and insights into the archaeological approach is an excellent way to study rock-art. That's why I came here, and I'm convinced that the UWA Centre for Rock-Art Studies will become a major attraction for postgraduate students, nationally and internationally.

"Despite the fact that rock-art has been around for thousands of years, there are still only a few experts in this area worldwide. People have been inscribing on rocks for different reasons for thousands of years: sometimes to tell stories, sometimes to create boundary markers or to depict totemic markers.

"We know there was an explosion of rock-art about 3,000 years ago in many parts of Australia when there was a huge expansion in population. This pulse in production could be attributed to the need



THE UWA CENTRE
FOR ROCK-ART
STUDIES WILL
BECOME A MAJOR
ATTRACTION FOR
POSTGRADUATE
STUDENTS



for boundary markers or to strengthen the identity of regional groups.”

Having relished his first exposure to Australian rock-art, Dr Brady accepted an offer to study for a PhD at Monash, working with high profile archaeologists Dr Bruno David and Dr Ian McNiven. He went on to be awarded a Postdoctoral Fellowship at Monash’s Centre for Australian Indigenous Studies to continue documenting rock-art sites in the Torres Strait islands and in the northeast of Queensland.

“My job was to look at the rock-art in collaboration with local communities,” he explains. “This was exciting work because with digital cameras and image-enhancing computer software, our research team was able to reveal rock paintings that were so weathered you could hardly see them.

“Unless well-sheltered from the elements in caves, rock paintings can fade to the point where they’re invisible to the naked eye. Sometimes you can see just a hint of the red ochre that has gone into the rock. However, with image enhancing software we were able to find dozens of previously unknown artworks in shelters and caves across the western Torres Strait islands.

“It’s an amazing experience to come across a site that no one has looked at for hundreds, perhaps thousands of years. On one of the islands we were checking all the rock shelters and caves when we came across the remains of a very old camp – a scarcely-visible scattering of shells and artefacts. Entering the shelter we found paintings spread right across the back wall and ceiling. It was incredible!”

Dr Brady, who has an Australian Research Council Postdoctoral Fellowship, is convinced there are thousands of pictographs and engravings (petroglyphs) as yet undiscovered in Australia. He is currently involved in several research projects that aim to document major sites, along with UWA researchers and experts from other Australian universities.

The inland Pilbara region, he says, is rich in rock-art but he laments the fact that some of this legacy is under threat from mining. UWA is currently supporting his collaboration with the Palyku Native Title Group that invited him to document the diverse assemblage of rock-engravings from their traditional country. “The Woodstock Abydos Protected Reserve is particularly well known for its Indigenous cultural heritage. It is home to very famous Woodstock figures and the Palyku people want us to record this important part of their heritage,” says Dr Brady.

“I don’t think the public is sufficiently aware of the amazing rock-art in this State. One of the aims of the new Centre is to make this information more widely available in collaboration with communities. We’ll be running public lectures and making school visits to increase awareness.

“While we now have the digital tools to help us document the past and to create digital animations of cultural landscapes, there are still major challenges. For instance, it is difficult to accurately date rock-art. The ochre used in paintings can be carbon dated but it is more difficult to be precise about engravings that were painstakingly incised or scored into rock surface.”

Another project in which Dr Brady is involved is a collaborative venture to record rock-art sites and to create management plans in the Gulf of Carpentaria, working alongside the Yanyuwa Aboriginal community and the *li-anthawirriyarra* Sea Ranger Unit.

“They invited us to work with them, so it is a great example of a collaborative effort to make a detailed report of the rock-art in the area. Research is one of our strengths and our researchers are working right across Australia.”

Above: Decorated panel from Mawamdarlbamdarl rock shelter showing kangaroo tracks (na-marnda), jellyfish (na-wuthirri), and hand stencils (Photo: Liam Brady, reproduced courtesy of Yanyuwa Elders, Leonard Norman, Graham Friday, and the li-Anthawirriyarra Sea Rangers)
Next page: UWA archaeologist Associate Professor Alistair Paterson at work, Wellington Range, Arnhem Land (Photo: Rick Stevens)

The breadth and depth of expertise at the Centre is certainly impressive. Associate Professor Balme is a specialist in ecological and hunter-gatherer archaeology while Assistant Professor Blaze Kwaymullina specialises in Aboriginal history and cultural heritage. Involved in the Centre are Associate Professor Ian McLean (art historian and specialist in Aboriginal cultural studies), Professor Sally Morgan, author of *My Place* (Aboriginal literature, visual and performing arts and oral history); Associate Professor Alistair Paterson (archaeology of recent Aboriginal Australian, colonialism and cultural landscapes and maritime archaeology), Dr Martin Porr (hunter-gather archaeology and rock-art research); Winthrop Professor John Watling (geochemistry, ochre provenance and dating techniques); Dr John Stanton, Director of Berndt Museum of Anthropology and Dr Kate Morse, Director of Eureka Archaeological Research and Consulting, which offers a range of archaeological services.

Dr Brady says there has never been a better time to explore this area of study at undergraduate or postgraduate levels.

"If you want to get into this area, an undergraduate degree in either archaeology or anthropology would be a good starting point. However, the Centre is very much a multi-disciplinary collaboration involving expertise in chemistry, geology, computer science, fine arts and Indigenous studies," he says.

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Picturing change

A UWA archaeologist is studying a visual history etched into rocks above an abandoned station where more than a century ago Indigenous artists recorded the arrival of ladies in long gowns, pipe-smoking settlers and the steamships that linked a remote outpost to the Swan River Colony.

UWA archaeologist Associate Professor Alistair Paterson has studied some of Australia's most spectacular rock-art finds. He was part of a team that in 2008 surveyed the celebrated Djulirri rock shelter in Arnhem Land that made national and international headlines.

That stone gallery of 3,000 paintings in the Wellington Ranges chronicles the history of Aboriginal contact with outsiders – from Macassan trepang

traders in proas searching for the sea cucumbers that tempted Chinese palates in the 19th century to the later colonists in boats who changed forever the lives of the Arnhem Land artists documenting their arrival. Biplanes and bicycles are also featured along with church ministers and sea captains – in layer upon layer of visual history.

The documentation of this site is part of an Australian Research Council Discovery project, *Picturing Change*, which focuses on rock-art that illustrated contacts with non-Aboriginal outsiders. The team includes Professor Paul Tacon (Griffith University), Dr June Ross (University of New England), Dr Sally May (Australian National University) and, A/Professor Paterson from the UWA Centre for Rock-Art Studies. The UWA Researcher is also collaborating with Indigenous communities in the Pilbara to record the rock engravings at abandoned stations southeast of the old pearling town of Cossack.

Inthanoona Station was built on a scenic lookout above a 700 metre long pool in the Jones River. Towering over the landscape are bare stone outcrops

continued on page 13





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Recording a visual history *continued from page 11*

that rise to 20 metres. On this 'canvas' Indigenous artists recorded the arrival of the first Europeans and their sheep, horses, camels and goats.

"This project provides us with exceptional evidence of early colonial pastoral and pearling industries, and of Indigenous perceptions of contact," says the UWA researcher. "There are more than 200 engraved motifs – the size of the assemblage is beyond anything encountered in the area.

RESEARCH IS ONE OF OUR STRENGTHS AND OUR RESEARCHERS ARE WORKING RIGHT ACROSS AUSTRALIA

"People are often depicted shooting, smoking and riding and apart from the engravings, we found cartridges, a pistol barrel, clay pipes and horseshoe nails at the long-abandoned homestead site."

Pastoralist Samuel Viveash established the station with partners in 1864 and appeared to have good relations with Indigenous workers employed as divers on his pearling vessels in summer and as shepherds and station hands in winter. Viveash attributed the early success of the station to their hard work. However in the early 20th century, like many in the area, the station was subsumed into a larger property.

"Western Australia has amazing rock-art and we've only scratched the surface in terms of understanding the significance: how many sites there are, which are the most exceptional, and what trends can be discerned across them," says A/Professor Paterson.

"Most WA sites are in the Pilbara and Kimberley – so we urgently need to study the impacts of development and tourism. We need to monitor these sites and to make people aware of the potential for

damage every time a cruise ship brings tourists who want to visit a rock-art cave. Management is a key issue.

"While protection for such sites exists under the Aboriginal Heritage Act and some are listed nationally because they're remote, they're difficult to monitor. This is an important part of what we do but we only work in areas where we've been invited by the local community."

The researcher says that UWA has spent many years building trusting, cooperative relationships with Indigenous communities and is helping to develop training and heritage expertise.

"For many communities in the Pilbara it is a case of rediscovering their own heritage, some of which is very ancient and some much more recent in the places where rock-art was made in the generations following the arrival of Europeans," explains the UWA researcher. "In fact, in some places like Arnhem Land artists produced rock-art through much of the 20th century."

The UWA archaeologist hopes the establishment of the UWA Centre for Rock-Art Studies encourages Federal and State governments, mining companies and the wider community to appreciate the need to document, conserve and protect the State's unique rock-art heritage.

"Rock-art is very evocative," says A/Professor Paterson. "It invites lots of speculation, raises lots of questions and is of great interest to a broad cross section of society."

"It is also a wonderful means of educating people about Aboriginal Australia and this perhaps is the reason why people will want to be associated with assisting this new UWA centre."

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Museum on the move!

How do you package and store in archival conditions a two-metre long reed fish trap from a remote Aboriginal community, a fragile gilt-paged Sanskrit book from India and a pair of handsome bronze urns ornamented with bells that once sounded through a Shinto temple in Japan? Fiona Gavino is pondering these challenges as Relocation Manager at the Berndt Museum of Anthropology at UWA.

The Berndt Museum's phenomenal collection – more than 11,500 objects, 35,000 photographs, the field notebooks of famous anthropologists, the films and sound recordings from remote communities in outback Australia and the highlands of New Guinea – is being packed away.

This complex exercise is proceeding with the meticulous care you would expect when transporting an internationally-acknowledged collection. Some objects are too precious to be moved by those busily devising secure archival packaging, documenting, wrapping and labelling the mountain of boxes. Such items will be left to last and those that have great cultural significance will be moved only once and by people appointed to the task.

The collection that for the past 35 years has been accommodated in the Berndt Museum of Anthropology was initially assembled by the celebrated Western Australian anthropologists and UWA teachers, the late Ronald and Catherine Berndt.

It has since been enormously enriched by discerning purchases, acquisitions and donations, so that today it features extraordinary material from Papua New Guinea and South East Asia, as well as some of the nation's most significant cultural material from Aboriginal Australia.

The Museum has particularly benefitted from its close engagement with Aboriginal communities that value it as a cultural resource, a source of advice and training and a repository of material that reflects Aboriginal Australia.

"The Museum has grown exponentially," says Director Dr John Stanton, "so it is significant that this University has now committed to creating



a purpose-built museum, with the possibility of locating it alongside a new base for UWA's School of Indigenous Studies.

"Such an initiative is vital because the collection has grown from 1,700 items in 1978 (when I arrived at UWA) to more than 11,500 items today.

"Plans to fund-raise and seek support for the proposed museum building from Federal and State governments and corporate and individual donors mark the first stage of ensuring that a collection acknowledged as one of the best in Australia is appropriately housed and shared with the public."

Meanwhile the relocation – which began two years ago – is underway. It involves a team specially employed for the task, as well as curatorial staff support.

"The relocation has been a good opportunity to check on the conservation status and confirm the documentation of objects as they are packaged," says Dr Stanton.

"Documentation of all the objects in the collection is available on the web, and we are currently in the process of digitising images to place there in instances when copyright is not an issue."

While decisions are made about the future museum building, the staff and collections will be temporarily housed in the Lawrence Wilson Art Gallery.

*Above: Relocation Manager Fiona Gavino
Next page: Relocation staff member Sean Mitchell packs
artefacts prior to the museum's move (Photo: Matt Galligan)*

The Gallery's Janet Holmes à Court Gallery will become the Museum's exhibition space for the next few years, providing the public with a window on the unique collection.

Overseeing the packaging and relocation is Fiona Gavino whose team considers it a privilege to be working with such an amazing array of objects and to have a chance to view the entire collection.

"One of the outstanding aspects of our collection is the era in which it was started and the fantastic documentation by the Berndts," says the Relocation Manager. "These objects are significant to all Australians and to be responsible for relocating the whole collection is a big responsibility.

"There are some things in the collection that I cannot pack or even look at. This restricted material is handled by male staff. While I'm quite a feminist in most things, I am quite happy to tow the line in matters like that because it means we're upholding the culture of the Museum and working within the laws of Aboriginal Australia."

Ms Gavino applied to join the relocation team after working as a curatorial assistant at the Lawrence Wilson Art Gallery.

"When I discovered this Museum, I immediately knew I wanted to work here so I put in an expression of interest," she recalls. "When I got the job the first thing I did was introduce myself to all the objects on display and tell them where I was from – which is traditional with objects of power."

Some of the Museum's materials, especially a display of sacred objects from Elcho Island in the Northern Territory, have special significance to Ms Gavino. Adopted by the Yolngu community on the island where her Aboriginal mother lives, she vividly recalls helping to harvest the fibres her mother used in basket weaving and searching for the pigments used in painted objects. Later she completed a Fine Arts degree at Charles Darwin University and worked at the Museum and Art Gallery of the Northern Territory.

"I was taught about Aboriginal life and culture on Elcho Island so even before I arrived here I was aware of what a challenge it would be to relocate a collection like this. In fact the surfaces of ochre and other pigments are so fragile that we have had to design individual packaging for many of the artworks and artefacts.

"Because of my background, I feel I am the right person to do this job and I have an amazing team and fantastic backing from the Museum's staff."

The largest objects to be moved in the coming months include two bronze urns from Japan; the smallest items – tiny tear-drop-shaped pearl shell fragments from Broome – have already been packed away. There's an entire cupboard of Buddhas from around Asia patiently awaiting packaging and transportation. While they are solid and substantial, a gilt-paged concertina book with cut-out Sanskrit words strikes Ms Gavino as being dauntingly fragile.

"With an object like this, you can't make a mistake," she says.

While she guides us through the objects still displayed against the backdrop of cardboard boxes now lining the museum's walls, Ms Gavino points to some of the challenges her team still faces: devising packaging for a two-metre long reed fish trap, huge hessian turtle and emus.

By the end of last year half the collection had been packed and the entire relocation should be complete by the middle of this year.

When the Museum – familiar to countless international scholars, anthropologists, students and visiting school children – is finally emptied, its custodians will be planning the next stage in the life of a unique collection that had its genesis in the scholarship and sense of adventure of two UWA researchers, Ronald and Catherine Berndt.



Meanwhile, Assistant Curator and Deputy Director Barbara Matters and Dr John Stanton are already busy working on an exciting exhibition program for the Holmes à Court Gallery. And while the old Museum facility is closed to the public, an outreach program ensures that its Aboriginal art, culture and knowledge of contemporary Aboriginal Australia is still available to Western Australians.

"Be assured that we can bring the Museum to you with the wonders of digital technology," says Ms Matters. "We can also provide tailor-made presentations to suit a variety of needs in the metropolitan area and some regions of the South West," she adds.

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Staying a step ahead of the cleverest parasite

Mosquitoes that inject a parasite into human blood have turned malaria into the world's most devastating disease and one that is potentially deadly in children. We talk to two UWA researchers battling the disease on different fronts.

While we generally associate malaria with third world countries in tropical and sub-tropical regions where more than half of the world's population live, the mosquito-borne virus Murray Valley encephalitis is endemic in the Kimberley, and Barmah Forest and Ross River viruses annually affect thousands in Australia.

Mosquito-borne viruses create public health problems around the world. For example, West Nile virus was introduced to North America in 1999, and chikungunya (first described in Tanzania in 1952) has become increasingly common in Africa, India and Southeast Asia. It has been detected in people arriving in Australia from affected countries – and a mosquito capable of transmitting it is resident in Queensland.

Dengue fever is currently the subject of a major Queensland Health campaign urging residents to “Stop growing mozzies” – in pot plant containers, bird baths, gutters and ageing water tanks.

UWA's School for Paediatrics and Child Health, the Telethon Institute for Child Health Research and

Princess Margaret Hospital have joined the battle against dengue, forming a group to trial a new vaccine that aims to protect against all four strains.

Study leader Associate Professor Peter Richmond says the vaccine would be of great value to Australian travellers because dengue is “an increasing scourge in Southeast Asia.”

“At the moment there is no licensed vaccine and no specific treatment exists, so controlling mosquito numbers is the only effective method of prevention at this time. The vaccine, developed by one of the world's leading vaccine companies, is being trialled in eight centres around Australia,” says Professor Richmond.

Researchers from this University are working in a variety of ways to keep one step ahead of what could be the world's cleverest parasite. In this article we profile the work of two researchers: an academic researcher and a PhD student.

Above: PhD student Rina Wong with a mother and child at a clinic in Papua New Guinea

UWA researchers carry out regular surveillance programs for the State's Department of Health. When they detect increased activity of Ross River and Barmah Forest viruses in mosquitoes, they inform the government. Health warnings are immediately issued and local government mosquito management programs may be intensified.

Researcher Associate Professor Cheryl Johansen of UWA's School of Biomedical, Biomolecular and Chemical Sciences is working with researchers from several universities to develop a new mosquito detection system.

Attacking the disease by studying the parasite's genetic mutations is PhD student Rina Wong of the Malaria Research Group in the School of Medicine and Pharmacology. This work has already won the promising young researcher the 2010 Western Australian AusBiotech-Glaxo Smith Kline Student Excellence Award.

Sweet success for researcher

Research A/Professor Cheryl Johansen has been involved in developing a unique surveillance strategy that could be a valuable early warning system for sometimes deadly mosquito-borne viruses causing public health problems around the world.

Tracking mosquitoes and monitoring the viruses they carry has become an important tool in the battle to keep Western Australians free of the mosquito-born viruses found in this State.

Monitoring of viruses that cause potentially fatal encephalitis is currently done through the testing of sentinel chickens, supplemented with annual trapping and testing of mosquitoes from northern WA. The sentinel chickens are kept by volunteers in some 30 locations throughout Western Australia.

Serum samples from the birds are despatched to the laboratory at UWA where they are tested for antibodies to Murray Valley encephalitis virus and the related Kunjin virus. When antibodies are detected, researchers know that the virus is active, and urgent health warnings are issued to alert people to the increased risk of potentially fatal mosquito-borne disease.

Recently, researchers at UWA, the University of Queensland, James Cook University and Queensland Health completed both laboratory and field trials for an alternative system. The team included Research Associate Professor Cheryl Johansen.

"Current detection methods are laborious, expensive and logistically complex," says A/Professor Johansen.

"Our alternative utilises the fact that mosquitoes transmit viruses in their saliva when they are either feeding on a blood source, or an energy source, such as nectar. The new detection system lets us capture



OUR TESTING INDICATES WHETHER OR NOT VIRUSES ARE PREVALENT, ENABLING RAPID DETECTION

mosquitoes in box traps where they feed on honey-soaked cards that preserve nucleic acids. While the live virus dies, its genetic material remains on the cards and can be analysed in the laboratory, and it lasts at least a week.

"So instead of testing all those mosquitoes, we can test several cards that indicate whether or not viruses are prevalent in an area, enabling rapid detection. There will still be times when standard mosquito trapping methods are required to determine which mosquito species are carrying the viruses, as this is important for targeted mosquito population management.

"However the new system for mosquito-borne virus detection may prove to be an important screening tool to see what pathogens are out there. It also allows you to sample a lot more mosquitoes at once, maximising the chances of detecting the pathogens. After testing our new system in the laboratory we did field trials and detected both Ross River and Barmah Forest viruses.

Above: Mosquitoes feeding on honey-baited card with blue food dye. Inset: Researcher A/Professor Cheryl Johansen

"We're still modifying the trap so it is more user-friendly and we've recently used it in a parallel study with sentinel birds. However, given that mosquito-borne viruses are a global public health problem that could be increasing, this system is an important way of screening."

This collaborative research was published in *Proceedings of the National Academy of Sciences of the United States of America* in June.

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On the front line of the war against malaria

UWA's Rina Wong is a frontline fighter in a global war against one of the world's deadliest parasites. *Plasmodium falciparum* kills one million annually and scientists are working to get one step ahead of the malaria parasite.

The malaria parasite *Plasmodium falciparum* is complex and cunning. It grows in red blood cells, replicates every 48 hours, has a seemingly endless capacity to mutate and is able to radically alter its DNA composition.

Thus armed and deadly, malaria has been able to spread to new areas in the wake of population movements and to re-emerge in areas where it was thought to have been eradicated.

The World Health Organization sees anti-malarial drug resistance as one of the greatest health

challenges we face today. Scientists working to get one step ahead of the parasites complain of insufficient funding in a battle that mainly affects poor countries – at a time when malaria parasites have demonstrated some level of resistance to almost every anti-malarial drug available.

Rapid detection of drug resistance has become a vital tool in selecting the right treatments and this is the focus of research by Rina Wong.

"We can no longer use a single drug as treatment: we need to mix and match and use combinations to slow down the development of drug resistance," says Rina. "I work with the most deadly species of the parasite, *Plasmodium falciparum*, which is responsible for the highest mortality. It causes cerebral malaria that can kill, and while most of the research focus is on adults, it is children and pregnant women who are the most vulnerable due to their low immunity. That's why my project focuses on malaria in kids."

Malaria research crosses the boundaries of several science disciplines: as a blood-borne disease, it falls into the category of haematology, as a parasite into microbiology while its drug resistance sees it studied in biochemistry laboratories.

When Rina completed her Honours degree at Curtin University of Technology and received an Australian Postgraduate Award scholarship, she opted to study malaria and contacted one of Australia's foremost malaria specialists, UWA's Winthrop Professor Tim Davis. He is collaborating with the Papua New Guinea Institute of Medical Research in clinical trials for new drug treatments and Rina became part of his research team.

She spent five months in the Madang Province collecting malaria-infected blood samples for laboratory culturing and drug sensitivity testing. "I learned basic Tok Pisin language and that gave me the opportunity to help with screening babies and kids who presented with malarial fever as part of a WHO-sponsored treatment trial," she recalls.

"From the remote Alexishafen Health Centre we would take a bumpy ride in a 4WD back to the jungle hospital where research facilities are situated. Electricity is a luxury and black-outs are common, so I got used to working, cooking and showering by candlelight!"

The clinical trial resulted in changes in the way antimalarial drugs were tested and allowed resistance to be identified more speedily and at an early stage. The researchers froze samples of malaria-infected blood and shipped them to the United States where Rina travelled to study parasite DNA mutation under the supervision of Dr Peter Zimmerman at the Case Western Reserve University. Here she extended a new high-throughput molecular method to screen 10 additional mutation sites in the parasite's



Left: Rina Wong in the laboratory in Cleveland, USA

multidrug resistance gene. This work won her a WA Department of Health New Investigator Award in 2009. She used the prize money and some additional funding from her supervisor to present this work at the 14th International Congress of Infectious Diseases in Miami in March last year.

"My research focuses on the parasite's genetic mutations and how that affects treatment outcomes," explains Rina.

Growing inside red blood cells where they replicate every 48 hours, the parasites synthesise DNA that can be detected by the binding of inexpensive DNA-specific fluorescent dyes. Using the flow cytometry facilities at UWA's Centre for Microscopy, Characterisation and Analysis, Rina is working in collaboration with PhD student Stephan Karl (who recently won the 2010 Western Australian AusBiotech-Glaxo Smith Kline Student Excellence Award). They aim to detect early signs of resistance more rapidly, in a cost effective way.

Rina's malaria research has also uncovered some promising leads for potential new drug treatments, including the use of the cholesterol-lowering drug atorvastatin.

The UWA student says that malaria parasites are very fussy to breed, demanding special (and costly) laboratory accommodation and daily attention.

"If they stress they die and you have to start again," she says. "That means going to the lab every

CHILDREN AND PREGNANT WOMEN ARE THE MOST VULNERABLE TO MALARIA DUE TO THEIR LOW IMMUNITY

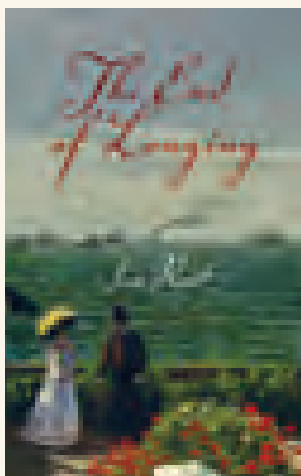
day, every weekend, during holidays or when you're sick, to keep them alive, fed and happy – before I kill them off in my experiments! It's been very challenging, but I have to say my PhD journey has been most memorable."

Rina's research with Professor Tim Davis on the potential of statins as antimalarial drugs was published in *Antimicrobial Agents and Chemotherapy*. Her research on the *in vitro* sensitivity of *Plasmodium falciparum* to conventional and novel antimalarial drugs in PNG was published last year in *Tropical Medicine International Health*. Her collaborative research with Stephan Karl is supervised by Professor Tim St Pierre.

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“The luckiest chap alive!”

Well into his 70s, Michael Crouch is an excellent example of the benefits and pleasures of the ‘life-long learning’ that this University supports.

In the Reid Library’s Scholar’s Centre surrounded by fresh-faced students, he sports an eye patch, a jaunty stride that belies his years, and an obvious pleasure at his return to student status. Michael Crouch’s PhD in history sees him researching and writing an historical biography of his grandmother, a ‘memsahib’ in British India during the days of the Raj. As he pours over sepia albums of tiger hunts and elephants with howdahs, over letters, diaries and newspaper cuttings, he confides: “I’m just loving being on campus – I must be the luckiest chap alive!”

Mr Crouch himself has an amazing story to tell quite apart from the one he is unravelling for his PhD. His own life story spans several continents and would certainly widen the eyes of the students who are his companions in the hushed confines of the library.

Born in the United Kingdom, brought up in the Sudan (where his father was a doctor) and educated

in Kenya and later at both Cambridge and Oxford, the young graduate joined the South Arabian Political Service in 1958. Thus began a decade in which he saw the British-run Aden Protectorate and the thriving port of Aden transform from a colonial administration to a volatile territory in which nationalism flared and ‘the winds of change’ brought down the curtain on a slice of the British empire.

“In those days when you joined the colonial service you were sent out on your own and were expected to cope with whatever came your way,” he recalls. “I had learnt some Arabic and later became fluent – and I was desperate not to endure another English ‘summer’! I looked on the extremes of South Arabia’s climate as a great adventure!

Above: PhD student Michael Crouch with Library Officer Azra Tulic who has been a great help to him at the Reid Library Scholars Centre (Photo: Matt Galligan)

"I had a most extraordinary life that, towards the end of my service, became quite dangerous. While everyone who made the voyage through Suez knew the very busy port of Aden, the territory where I lived and worked, the Aden Protectorate (now South Yemen), was 'the back of beyond'. It was described then as 'rushing headlong into the seventeenth century'.

"I spent a lot of time moving through the area, living in tents, keeping in touch with Arabian tribes, providing money for schools and wells, but also reporting on the situation as nationalism and the struggle for independence spread through Yemen from Egypt. By the time I left I had survived four assassination attempts!

"During the 1990s the government of unified Yemen invited me back to help identify the actual frontier with Saudi Arabia – one of those colonial 'lines on the map'. One of my hosts turned out to be a chap who had once lobbed a hand grenade at me. Fortunately we got on very well!"

When he left Yemen, Mr Crouch settled in Perth with his young family and had a succession of senior administrative roles with large WA-based companies. This was followed by teaching at Guildford Grammar (economics and French), and consultancy work with the Lotteries Commission and the National Trust.

He then turned to writing, visiting Yemen to research a history of the Jews of Arabia. He also recalled his own adventurous life in *An Element of Luck* (published in 1993 in London, republished in WA in 2000).

In 2005, he completed a biography of Western Australian author Tom Hungerford, *The Literary Larrikin*, published by UWA Press. He was encouraged to study for an Honours degree in History by former Press director and historian, Professor Jenny Gregory and then to move on to a PhD.

"I've probably had about eight careers in my lifetime," says Mr Crouch. "That's common today but not when I was younger. I think that after my time in Arabia, I just wasn't cut out for long-term

employment. I had been so extremely self-sufficient in that first career as a young man, that everywhere I subsequently went I felt I was bumping up against other people's levels of competence, so I kept moving on to the next challenge!"

The current challenge of researching and writing his grandmother's story received a huge boost when letters, diaries, cuttings and photo albums he has amassed as part of the family archive were augmented by a manuscript she had written that was unearthed in a tin trunk by a relative in Africa.

"My grandmother had dreams of becoming a doctor and my grandfather had fallen in love with her when she was a schoolgirl and he helped with her algebra homework.

He was a senior member of the Indian Civil Service when he returned 'Home' in 1896 to find her studying for a BSc and eventually medicine. However, when her father died, she was summoned home to serve as a companion to her mother. So my grandfather's marriage proposal became an avenue of escape – but to the life of a 'mehsahib', which in some ways was a bitter change for a would-be feminist," says Mr Crouch.

Just as his grandmother probably never quite shed that experience in British India, so Mr Crouch has clearly never quite left behind his decade in Arabia.

"I still get up at 4am as I used to in Aden because it was so hot and there were no fans in the interior," he muses. "I read a great deal, perhaps four books at a time, and I love spending several hours here in the library every day.

"I've learnt a lot at UWA because I previously had little contact with the history discipline. I've learnt so many new ways of doing research, so my PhD studies have become a wonderful challenge."

Michael Crouch recently spoke about his PhD 'epiphany' to the Friends of the Library. His PhD is being supervised by Professor Jenny Gregory in History within the Faculty of Arts, Humanities and Social Sciences.



A call to halt the 'rotating doors'

Winthrop Professor Gary Hulse, whose area of research is addictive medicine, asks why we are not addressing the 'rotating doors' that bring substance abusers back into emergency wards of overstretched hospitals; why we're the only State without abuse services linked to a major hospital; and why we don't seriously tackle our most problematic drug: alcohol.



UWA Professor Gary Hulse began his career in clinical practice, so he knows all about the power of addictive drugs. He's heard patients agonise over the grief that attends their use of charismatic drugs like heroin and says while amounts of heroin on the street may be declining, it remains a huge problem – for individuals, families, overstretched hospitals and health providers now dealing not only with overdose victims, but with the sometimes “out of control” users of illegal drugs like ice.

Sharing his expertise and experience with Federal parliamentarians at an inquiry into the impact of illicit drugs on families, Professor Hulse gave a graphic illustration of the nature of addiction when he recounted the heartfelt testimony of a female patient.

“She said to me: ‘If you had told me a year ago that I would be lying to and cheating the very people I care about – my friends, my family – that I would be ripping them off, dealing in drugs and selling my body for \$30, I would have said you were not talking about me. I am a stronger character than that. Yet here we are a year later and that is me, and I don't like me. I don't like what I am doing. I don't like what I have become. I don't know what to do about it. Did I forget to tell you, I love to use heroin?’”

Every major hospital deals with the fallout of addictions, including King Edward Memorial Hospital where babies are born requiring neonatal drug withdrawal treatment in a special care nursery. Their mothers have complex medical needs so their addiction is managed during pregnancy even if it means their babies are born methadone-dependent.

“People use heroin and other drugs despite all these things,” says Professor Hulse who divides his time between teaching and research in UWA's School of Psychiatry and Clinical Neurosciences.

“Addicts may continue to use heroin even while they're on methadone or buprenorphine treatment programs,” says Professor Hulse. “This may be

*Left: Illustration by Shaun Tan
Next page: Professor Gary Hulse*

because they continue to engage with the narcotic network of dealers and users when they come for treatment, so relapse is not uncommon.”

One of his current lines of research is to gauge the effectiveness of naltrexone implants in treating heroin dependence. In 2009 the well-respected *Archives of General Psychiatry* produced by the American Medical Association published the findings of his research from a randomised trial.

In the journal article, Professor Hulse reports that while heroin users taking oral naltrexone commonly relapse (thinking “I’ll just have one little dabble...”) his UWA research indicates that a sustained-release preparation may overcome this treatment limitation.

Seventy heroin-dependent volunteers were part of the randomised, double-blind, double-placebo controlled trial that had a six-month follow-up. It indicated that more participants using oral naltrexone returned to regular heroin use within the six month period than those using the implant.

The research (the first such trial) suggests that while the oral drug can be effective in treating highly motivated patients, sustained release naltrexone could provide a new treatment option for those who might otherwise become a relapse statistic.

Professor Hulse says that while the level of heroin supply may have declined in recent years, there is increased traffic in amphetamines, methamphetamines and ecstasy. He also points out that alcohol outstrips every other drug in terms of its impacts.

“So-called ‘lifestyle choices’ such as alcohol, tobacco and obesity contribute to 90 per cent of hospital bed occupancy,” he says. “The difference between alcohol and tobacco is that apart from passive smoking, the damage done by tobacco impacts on individuals later in life when an individual has at least had an opportunity to contribute to the community.

“Alcohol impacts on a much younger population and is associated with domestic violence, traffic accidents, physical and sexual violence. It causes a far wider circle of damage to the community.

“The question has to be asked about the lack of political will in tackling this problem. This State has been a leader in dealing with tobacco morbidity but seems slow to tackle alcohol other than restricting sales at the request of some regional communities – an initiative that brings significant benefits.

“However, in our cities little has been achieved – perhaps because of the power of the alcohol industry; perhaps because there’s been a decision to adopt a carrot rather than a stick approach: to make small changes and try to maintain the momentum.

“The small steps approach is OK but to have any effect you need to maintain the momentum so at the end of a decade you can point to significant changes that have been achieved.

“I think today there’s a heightened awareness of the damage done by alcohol, and a greater



WE KNOW THAT
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unwillingness to accept as normal the carnage associated with it. Tackling this problem doesn’t necessarily mean spending a lot of additional money. Often you can improve the situation simply by better coordinating existing resources.

“We know with substance abuse there is a ‘rotating doors’ element for those presenting at emergency departments. We need to ask whether – when these individuals first presented – everything was done to ensure they didn’t return. Were their mental health issues addressed or their lack of housing, education and employment?

“What we do know is that when we take initiatives – like providing swimming pools in regional areas – there are multiple effects: reductions in violence, improvement in eye conditions and general health. And when that happens, the politicians move forward to accept responsibility for the improvements.

"In the case of illicit drug users, very often the abusers have no fixed place of residence, nor do they have any prospects. There is nothing to fill their days. So we need to ask ourselves what we can do to provide such people with the resources that can change their lives – perhaps it is housing or training: things that give them a vision of themselves in a better place, of being a different person.

"Unless you have that vision, you're not going to be able to give up your addiction, improve your life or rebuild family relations. When people are involved in substance abuse they burn a lot of bridges with family, friends and supporters. Sometimes you can give them hope by providing very basic needs: a place to stay, somewhere to lay their head down. And we all need a sense that there are people around us who care."

SO-CALLED 'LIFESTYLE CHOICES' SUCH AS ALCOHOL, TOBACCO AND OBESITY CONTRIBUTE TO 90 PER CENT OF HOSPITAL BED OCCUPANCY

Professor Hulse is also deeply concerned that this State is not tackling addiction treatment effectively. He points out that the Alcohol and Drug Authority (ADA) runs a number of clinical facilities that, in his opinion, are only equipped to take on "the least risky cases".

"We are the only State in Australia that doesn't have specialist alcohol and drug services attached to a major public hospital," he says. "In one respect that is because people can point to services provided by the ADA's clinical facilities.

"But essentially, the Alcohol and Drug Authority sits in isolation. It doesn't have links with intensive care facilities, it can't get the cycle of registration and training opportunities that you would get out of a hospital system, so that defines the type of people they treat.

"I would argue that the Authority with its multimillion dollar budget essentially deals with people who are not going to present with major problems, people who can be dealt with without the backup of medical specialists.

"Yet everyone acknowledges the coexistence of drugs and psychiatric problems. We know some 70 per cent of people in psychiatric wards have a substance abuse problem.

"The ADA doesn't feel able to take on abuse cases with major psychiatric problems, so 70 per cent of these people present at hospitals and hospitals limp on without adequate funding to deal with them.

"I would argue it is essential we offer an amalgamated service that caters for 100 per cent of substance abuse cases: a specialist clinic located next to Royal Perth Hospital that allows rotations and referrals to quickly go back and forth. Every other State has alcohol and drug services attached to their hospitals, in fact Victoria and NSW have several."

Professor Hulse says that while there has been talk of changing the current system for years, decisions have been delayed. "The result has been to destabilise morale and workplace relations and some very good people have left the ADA. It was terrible to initiate such a move and then not act."

Professor Hulse has made a submission to the Education and Health Standing Committee looking into the adequacy and appropriateness of prevention and treatment services for alcohol and illicit drug problems in this State. Chaired by Dr Janet Woollard, it is likely to report on its findings and recommendations over the next few months. The UWA researcher also appeared at the 2007 House of Representatives Families Committee inquiry into the impact of illicit drug use on families.

Professor Hulse, a graduate of La Trobe University, has worked in the area of addiction since 1987, initially in clinical services. In 1992 he joined the Faculty of Medicine at UWA and today he is Director of Research and Education in Alcohol and Drugs. His research is directed at developing evidence-based information that will enhance clinical practice.

Over the past few years he has made several invited presentations at international research conferences, including the USA National Institute of Drug Abuse International Forum on Building International Research on Drug Abuse, US College on Problems of Drug Dependence (CPDD) Scientific Meeting and The International Stapleford Conference on Addiction Management.

Professor Hulse has authored a large number of academic papers and has contributed to several books. He is Chief Editor of two evidence-based clinical texts in the field of addictive substances published by Oxford University Press which have been adopted as the standard texts for medical training by the Australian Medical Schools Committee of Deans. *Alcohol and Drug Problems: A Case Study Workbook* was published by OUP in Sydney in 2004.

For several years Professor Hulse has worked with the Fresh Start Recovery Program that is run out of the Perth Naltrexone Clinic established by Dr George O'Neil in 1996.

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UWA's 'Tall Poppy' buries the stereotypes

While scientific breakthroughs are heralded by the media, we know little about what lies behind the high profile awards that celebrate such achievements.

When UWA researcher Dr Kristen Nowak recently won the inaugural Western Australian Young Tall Poppy Science Award for research into a devastating muscle disorder in newborns, her award marked more than a decade of sometimes painstaking research, long hours in laboratories and moments of triumph tempered by disappointment.

UWA's Tall Poppy admits that being persistent is an asset in her profession. "I tell the school students I talk to that it is a necessary quality in a research scientist," says the graduate.

"I also tell them that science is a bit like a religion. You have to have faith that what you are doing is going to work. If, after months or even years of exploring a particular hypothesis you find you're on the wrong track, you have to have the determination to retrace your steps, go back to the drawing board and start again.

"And yes, sometimes you ask yourself: 'What am I doing?' – particularly when you're alone in a lab late at night or over a weekend!

"Being persistent helps, but what keeps you going is meeting the families of those affected by the disease you're researching. They're simply inspiring and so pleased that someone is working on their problem. That's what motivates you – because these families have been dealt a terrible card..."

The 'terrible card' that Dr Nowak is trying to decipher is Floppy Baby Syndrome, a paralysing disorder that affects thousands of infants worldwide.

Kristen knew nothing of the disorder when, after graduating from Murdoch University she approached Professor Nigel Laing at UWA's Centre for Neuromuscular and Neurological Diseases to see if she could do work experience in his laboratory. Professor Laing has an international reputation for identifying genes involved in genetic muscle and neurological diseases.

Work experience morphed into work as a research assistant and later to PhD studies. The young researcher quickly appreciated that her Scottish-born supervisor had turned his UWA



*Top: Chief Scientist of WA, UWA's Professor Lyn Beazley, Professor Nigel Laing, Dr Kristen Nowak and ABC Science Show host Robyn Williams at the inaugural Western Australian Young Tall Poppies Awards
Bottom: Dr Nowak with fellow UWA award winner Associate Professor Meri Tulic*

research base into a diagnostic hub for a string of rare skeletal and muscular diseases. Samples of DNA from across the world arrived at his laboratory and at the diagnostic neurogenetics laboratory at Royal Perth Hospital.

Following two years in the Department of Human Anatomy and Genetics at Oxford University where she began investigating therapies for Floppy Baby Syndrome, she rejoined Professor Laing at the WA Institute of Medical Research (WAIMR).

"Most women whose babies are born with Floppy Baby Syndrome have no idea that anything is wrong, except, perhaps, their baby did not move as much in the womb as older siblings," says Dr Nowak. "Sometimes a baby with this condition is born completely paralysed and must immediately be put onto a ventilator. Usually these newborns die within a year, however some children do survive – and we don't quite understand why there are these gradations in the severity of paralysis.

"When a newborn is diagnosed, parents want answers and our first step is to find out whether there was a defect in a critical gene and whether one or both parents have that defective gene. In most cases it turns out that the gene is only defective in the child."

In 1999 Dr Nowak was the first to identify a defect in the gene ACTA1. Since then, she has helped develop a screening technique that allows scientists

to provide answers to families. One screening centre is in Perth and others have been established worldwide.

Not content with that breakthrough, Dr Nowak and her team are now pursuing a cure and have achieved a significant measure of success by radically extending the lives of laboratory mice with the condition.

The 2010 Young Tall Poppy Science Award initiated by the Australian Institute of Policy and Science not only acknowledged Dr Nowak's outstanding research but her passion for science.

SCIENCE IS A BIT LIKE A RELIGION. YOU HAVE TO HAVE FAITH THAT WHAT YOU ARE DOING IS GOING TO WORK

"We're all born with natural curiosity about the world," she says. "As children we experiment all the time. The trick is to keep that curiosity active, particularly as it relates to science," she says.

She says her award helps to bury the stereotypical image of the scientist as a 'nutty professor with wild hair'. When she arrives fashionably attired at a secondary school or to collect an award, she becomes a role model that young students can relate to. And there have been plenty of awards including the 2001 Young Western Australian of the Year (Science and Technology) and the 2007 Premier's Award for Early Career Achievement in Science.

The UWA researcher completed her PhD in 2002, supervised by Professor Laing. Their research team includes current PhD students.

"That keeps you fresh," she says. "The students are learning from you, and you're learning from them – and together you're taking the research forward. That's what makes scientific research so rewarding."

That's a sentiment shared by the finalists in the Young Tall Poppy Scientists Award, all of whom are involved in research in diverse areas from advancing knowledge about allergic diseases to developing magnetically and laser-targeted drug delivery.

UWA winners include Assistant Professor Marco Fiorentini in the Centre for Exploration Targeting, who has an international reputation for research on ancient lava flows that provide crucial information about the early Earth; ARC Fellow K Swaminathan Iyer, Deputy Director of the Centre for Strategic Nano-Fabrication, who is investigating the use of nanocarriers for drug delivery; and Associate Professor Meri Tulic who is exploring how in early life the immune system is programmed and modified by environment changes.

A vertical poster for UWA Sports. At the top, there is a small logo with the text 'UWA SPORTS' in blue and yellow. Below this, the main title 'LIVE THE EXPERIENCE' is written in large, bold, white letters with a black outline, slanted upwards. To the right of this title, 'UWA Sports' is written in a smaller, yellow font. Below the title, there is a photograph of a person in a blue athletic outfit, standing with hands on hips. To the right of the person, the text 'Join in | Stand out' is written in blue and yellow. Below this, there is a block of text: 'UWA Sports offers a wide range of sporting and recreational services which encourage UWA Staff, Alumni, and Graduates to pursue an active lifestyle.' Below that, another block of text: 'Check out our website for more details on 2011 programs, courses, and events.' At the bottom of the poster, the website address 'www.sport.uwa.edu.au' is written in white text on a dark blue background.

UWA Sports offers a wide range of sporting and recreational services which encourage UWA Staff, Alumni, and Graduates to pursue an active lifestyle.

Check out our website for more details on 2011 programs, courses, and events.

www.sport.uwa.edu.au



My last Perth Festival: 2011

Artistic Director Shelagh Magadza reflects on her time at the helm of the Perth Festival and pays tribute to the University for “the vision that brought this festival into existence”.



When I first started working in festivals, the Perth Festival had the reputation as one of the most prestigious in our region. I came to know of it not only through the programs produced each year, but also through artists who spoke so highly of their experiences in Perth. The Festival was also known to be highly collaborative and actively supportive of similar events in Australia and the region.

So when the chance to come here on a nine-month contract arose, I jumped at it. Nine years later I'm preparing for my final festival in Perth, and I could not have foreseen that the final four years would be as Artistic Director. It has been a tremendous privilege and despite the many challenges, the support from The University of Western Australia and the State via Lotterywest, has maintained the Festival's position as Western Australia's premiere cultural event.

Over the last five years, Festival audiences have grown with the Lotterywest Festival Films being one of the most popular discoveries by new audiences. 2011 also marks the final Festival (after 41 years!) for Sherry Hopkins, Senior Program Manager, Film. Sherry leaves a tremendous legacy – one of the strongest audiences for world cinema in the whole of Australia. If you haven't yet spent an evening in the Somerville Auditorium, make this a must for this summer.

Like the film season, the rest of the 2011 program represents a key ambition of the Festival – to bring the world to Perth through a celebration of the arts. Highlights include the *Manganiyar Seduction* from India, *Donka: A Letter to Chekhov* from Switzerland

Above: Shelagh Magadza against the backdrop of the Lotterywest Festival opening

and *Aftermath*, powerful stories from Iraq, which will be performed in UWA's Octagon Theatre.

In honour of the University's centenary celebrations, this year we will present the prestigious Academy of Ancient Music in two special performances at the Perth Concert Hall. A performance of Hayden's masterpiece, *The Creation* marks 100 years since the Act was signed bringing UWA into existence and it marks our gratitude to the University for the vision that conceived this Festival.

Also on campus is the Perth International Writers Festival. Over four days of talks, debates, workshops and performances some of the most interesting voices in fiction and non-fiction will gather on the campus. With many sessions free, and a day of activities for children, it is one of my favourite Festival events.

Dialogues with Landscape will bring a series of visual artists onto the campus with installations that invite you to explore the grounds and ponder the broader theme of our relationship to the environment. Keep an eye out for some beautiful and unusual additions to the University grounds during the Festival.

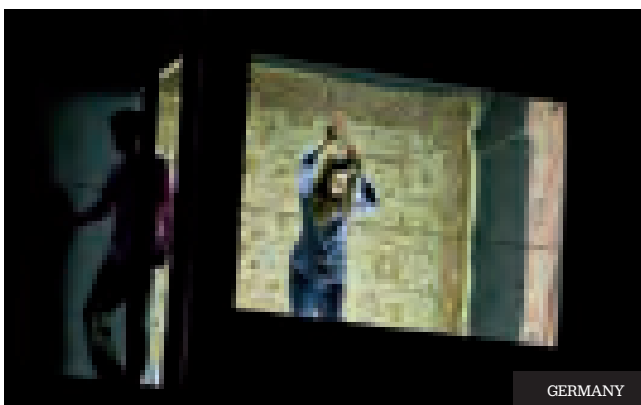
Each Artistic Director brings his or her own strengths to the role but one of the key challenges is to ensure the Festival reflects the unique culture of this place in the world. It is this part of the role that has been both the most challenging and the most

rewarding. As a newcomer to Perth, I had to learn the sense of geography, the history, the aspirations and the cultures that are important to how we see the world. As with any question of identity, there are conflicting views to reconcile but as I've become more aware of the discourse around our community I've gained a huge respect and fondness for the capacity to accommodate diversity and change.

The ability to explore and express identity is a preoccupation for artists across Australia and the Festival plays a crucial role in supporting the creation of new work. Each adds a layer to the palimpsest of collective memory, defying the more rigid ideas of identity. Stories from Indigenous cultures intertwine with those of settlement, forming a complex portrait of who we are. This creation of our own mythologies is a crucial role the arts play within our society. It is something that is hard to measure, but should be valued and nurtured.

This year the Festival has been a commissioning partner for four new Australian works. *Human Interest Story*, a dance piece, explores the role of the media in our lives with both humour and insight. *Waltzing the Wilarra* is a piece of musical theatre by top Indigenous theatre makers who tell a story of the tensions of love and family across racial lines in Western Australia. *Boundary Street* is another theatre piece in which music plays a key part – this time the story of wartime Brisbane. And finally, *My Bicycle Loves You* looks back to Australia at the beginning of the 20th century through the tradition of performers who toured the country at that time.

The Festival receives support from many areas of the University: from the Senate, the Vice-Chancellor, the Legal Services Office, Facilities Management, the Arts Faculty, Office of Development, Human Resources, Public Affairs, Lawrence Wilson Art Gallery, the Cultural Precinct, UWA Albany campus and UWA Extension. As the last weeks of the 2011 Festival approach I'd like to thank everyone who contributes to the success of the Festival, and the many staff, students, alumni and friends who attend our events. It is a tremendous part of life in Perth.



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Pygmonia's place in history

Remnant Pygmy populations in rainforests or remote highlands have intrigued travellers since the dawn of history. Once wrapped in myth and legend, when encountered by 19th century explorers and scientists in Africa, South America, Southeast Asia and Australia they prompted early anthropologists to ponder whether Pygmonia had once spanned the globe. UWA archaeologist Peter McAllister was determined to unravel the mystery.

When archaeologist, author and science communicator Peter McAllister chanced upon an early 20th century photograph of Pygmy-sized people living deep within the rainforests of Far North Queensland he was instantly intrigued.

The sepia image proved to be the starting point for a quest that saw him delving into legends and ancient history and researching accounts of early anthropologists and travellers who had encountered Pygmies in locations from the Congo to Brazil, from Southeast Asia to Far North Queensland.

The more he learned about the diminutive skilled hunters who had retreated to jungles in Africa or the highlands of New Guinea, the more he wanted to unravel the mystery of whether they were remnants of the ancient Pygmonia – 'land of the Pygmies' – that anthropologists speculated had spanned the globe.

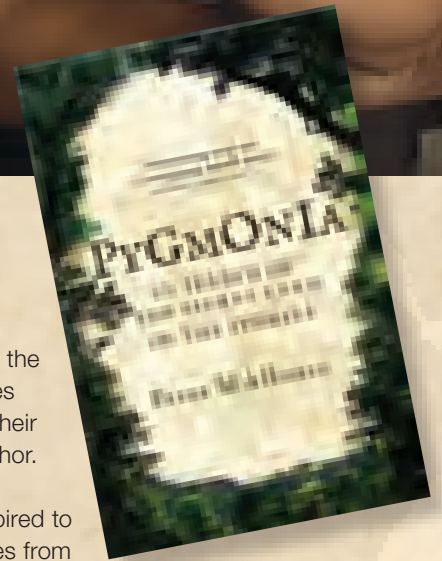
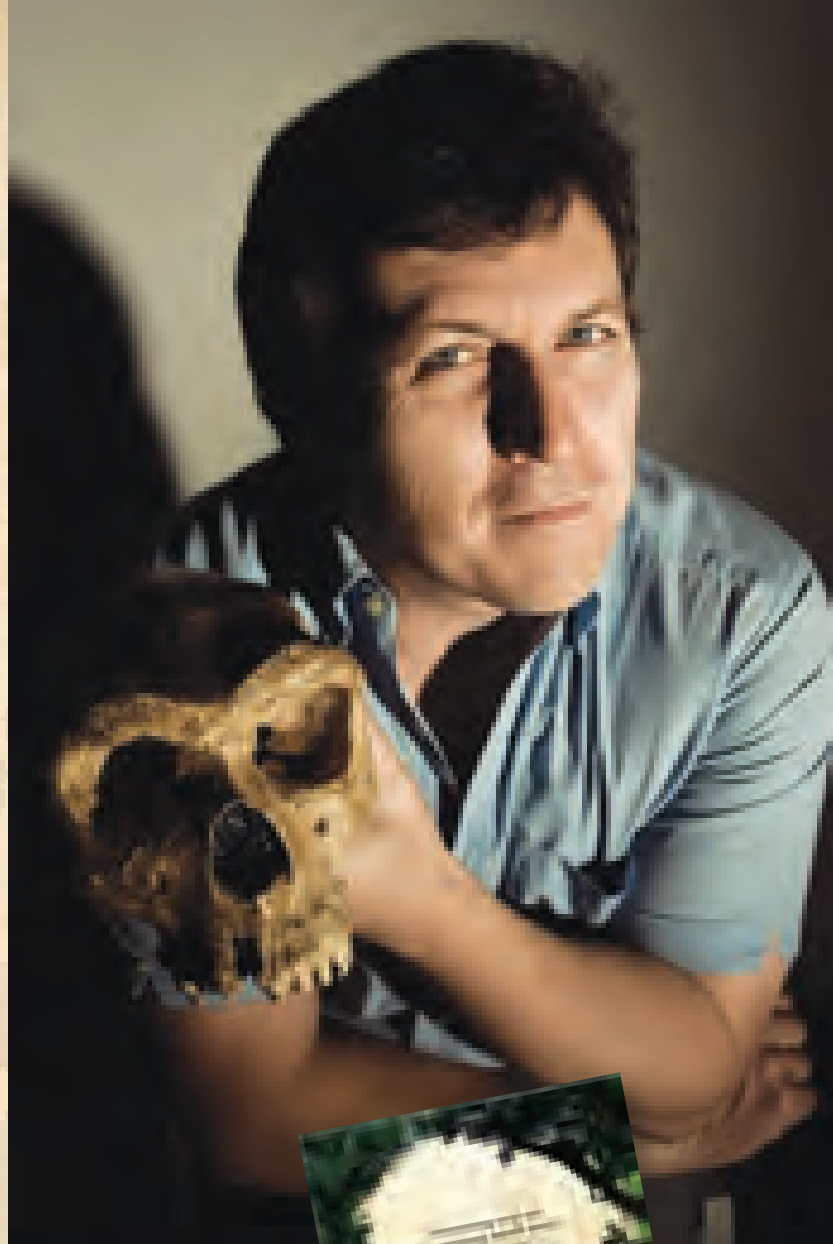
"According to this theory, most of the entire Old World was at one time the territory of Pygmy peoples," he explains. "Overrun by later arrivals and by the modern era, today they have been sadly reduced to remnant groups in inaccessible refuges like forests and mountains.

"The whole idea of Pygmonia conjured for me the romance and tragedy that so animated the early

days of anthropology: the mystery of unsuspected civilisations traceable from just a few scattered clues; the tragedy of remnant peoples lingering in the twilight of their former glory," says the author. "It's been suggested that political interest had conspired to airbrush Australian Pygmies from memory and I wondered whether something similar had happened to the theory of Pygmonia."

Several years of research followed as part of the author's PhD in Science Communication at the University of Queensland. The result is *Pygmonia, In Search of the Secret Land of the Pygmies*, published by the University of Queensland Press. An absorbing scientific detective story, the book has prompted comparisons with Dava Sobel's bestselling life-and-death story, *Longitude*. Certainly, it has impressed Paul Willis, of ABC TV's *Catalyst* who describes it as "a fascinating read and an intriguing, untold story."

Above: Peter McAllister (Photo: Lisa Businovski)
Inset: The Cover of *Pygmonia, In Search of the Secret Land of the Pygmies*



Peter McAllister is an Adjunct Lecturer in the Faculty of Life and Physical Sciences. A palaeo-anthropologist and archaeologist, he divides his time between writing, lecturing in Science Communication at UWA and working as an archaeological survey consultant. His archaeology degree at the University of New England was followed by Honours at the University of Queensland.

"What I love about archaeology is that it's the greatest detective story of all time. You're piecing together countless scattered clues to find out what happened perhaps millions of years ago – it's very addictive for a mystery buff like me. I'm also very interested in communicating science through narrative and of course archaeology and evolution are the most compelling narratives."

Mr McAllister says that people have known about Australian Pygmy people since Thomas Huxley (dubbed 'Darwin's Bulldog' for his advocacy of evolution) noted their existence in North East Queensland in the 1870s.

WHAT I LOVE ABOUT ARCHAEOLOGY IS THAT IT'S THE GREATEST DETECTIVE STORY OF ALL TIME

"There has been controversy about the status of Australian Pygmy people and this later became entangled with the so-called 'History Wars,'" he says. "While they had very reduced stature in relation to other Aboriginal people in Australia, some scientists argued strongly that they were not part of an earlier wave of settlement in Australia.

"I wasn't entirely satisfied with the various arguments put forward in relation to Australian Pygmy people and those scattered around the world, so I decided to research the subject myself."

His research revealed that Pygmies were known to the Pharaohs of Egypt and were written about by the Greek historian Herodotus. However, it was the British explorer Stanley's account of Pygmies in his book *In Darkest Africa* that aroused intense interest and, says Mr McAllister, resulted in six Pygmies being taken to London for a season at the Hippodrome before being returned to their forest homes. This widely-publicised appearance banished forever the notion that Pygmies were the stuff of myth and legend.

It was early navigators, explorers and colonists who triggered interest in Pygmies. Their presence in the Philippines had been noted by a scholar journeying with Magellan in the 16th century and later by European colonisers in Indonesia. However, it was the French naturalist Professor Jean Louis Armand de

Quatrefages de Breau who gave birth to the theory of Pygmonia. He speculated that Pygmies were the remnants of a primordial human race that had spanned much of the globe – a theory that excited the imagination of both anthropologists and the public alike and that sparked interest in the new discipline of anthropology.

"The theory that Pygmy populations scattered through much of the world were the descendants of the out-of-Africa migrations and were the first settlers in many locations who were eventually driven to marginal areas by later arrivals proved to be true," says Mr McAllister. "However, my research convinced me that it is not true that Pygmy populations around the world share an identical genetic mutation making them short. The crucial evidence for this is that there are different genetic growth restrictions between different populations, between say African and New Guinea Pygmies.

"This is predominantly because protein malnutrition, whether caused by diet or disease, can retard the production of IGF-1 (a growth hormone). When the conditions that cause this growth restriction persist for a very long time, particularly where disease is the agent responsible, this environmentally-driven growth restriction can be transformed into a genetic one. This is because the high mortality rates in those unhealthy environments create an evolutionary pressure for women to cease growing at an earlier age and begin reproducing, simply to have any chance of doing so within a very small window of opportunity."

The author says that life expectancy for Congo Pygmies is 16 years and for those in the Andaman Islands (off India) is 22 years.

African Pygmies in the Congo, being hunters, may have adequate nutrition, he explains, but they live in an environment that harbours high levels of disease – perhaps 20 times the level of other hunter-gatherer environments like savannah and desert.

"Populations with very high level of disease tend to suffer from loss of protein which leads to low levels of certain growth hormones. If people live in these conditions for a very long time, they sometimes acquire a mutation that makes it impossible for them to produce this growth hormone," he says.

Peter McAllister is also the author of *Manthropology: The Science of the Inadequate Modern Male*, which is being made into a documentary series, and the fictional *Cosmonaut*. He is currently researching a book about the evolution of human pet-keeping.

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Advancing a global conversation

UWA was founded on a generous culture of philanthropy and such a gesture recently formed the cornerstone of a new centre that is rapidly becoming a hub for visiting scholars and UWA researchers in a complex area of psychological research.

The Elizabeth Rutherford Memorial Centre for the Advancement of Research on Emotion (CARE) perpetuates the memory of a truly remarkable UWA researcher who was fascinated by the study of all aspects of normal and abnormal emotion.

Her extraordinary research output won the late Elizabeth Rutherford a global profile and established this University as a world-leader in unravelling the underlying causes and consequences of emotional experience.

Trained as an occupational therapist, Elizabeth Rutherford developed an early interest in the causes and consequences of positive and negative emotional experience. As her interest grew, she explored several disciplines that ultimately brought her to the School of Psychology at UWA, initially as a student researcher and later as an Australian Research Council Fellow.

Colleagues viewed with awe the success of her first published paper which was cited hundreds of times by leading international researchers. Each subsequent publication helped to increase her influence in a field of study she made her own.

Professor Colin MacLeod, who supervised her PhD at UWA and became a colleague and friend, recalls both a “breathtaking intellect” and a scholar totally unaffected by the worldwide esteem in which she was held.

After her untimely death in 2008 from an aggressive form of cancer, tributes flowed in from London, Cambridge and Harvard. Many were from scholars who never met the UWA researcher but knew of her work and her reputation.

Professor MacLeod also recalls distinguished visitors coming to meet Dr Rutherford and finding that the source of the outstanding work they so admired was a “gentle, self-effacing lady, devoid of ego and replete with old-fashioned Australian charm”.

When this extraordinary scholar died in 2008, her mother Margot Rutherford and her sister Debbie were determined that the new directions forged by Dr Rutherford’s research should be advanced by a new generation of scholars.

Above: Elizabeth Rutherford’s sister Debbie Rutherford, and mother Margot Rutherford with Vice-Chancellor Professor Alan Robson at the Centre launch (Photo: Paul Ricketts)

Says Professor McLeod: "While much is made of humankind's fairly recently acquired intellectual prowess, when we reflect on the human qualities that most strongly shape our experiences and behaviours – individually, nationally or as global communities – it is clear that rationality is often a poor cousin to emotions. The most important and influential decisions and events in our lives and times have been and will continue to be, shaped by emotion."

At the official opening of CARE, Vice-Chancellor Professor Alan Robson paid tribute to Margot and Debbie Rutherford whose generosity helped to establish the centre.

"Your donation enables us to provide not only a physical space, but also scholarships and travel awards that will enable growth and collaboration in these key areas of research," he told the benefactors.

"Outcomes of such generosity are often easiest to see at an institutional level," he added. "Harder to see, yet often more important, is the effect on individuals who benefit from these acts of generosity."

The event was the highlight of Margot's twilight years. She became increasingly frail over winter and passed away in October 2010.

"We were so appreciative of the way the University honoured Elizabeth and her work," said Debbie.

"The way that everyone involved us in the planning of the centre and its opening made us feel very special and I know that it gave Mum a second lease on life. She spoke for months about the wonderful lunch we had with the Vice-Chancellor at the University Club."

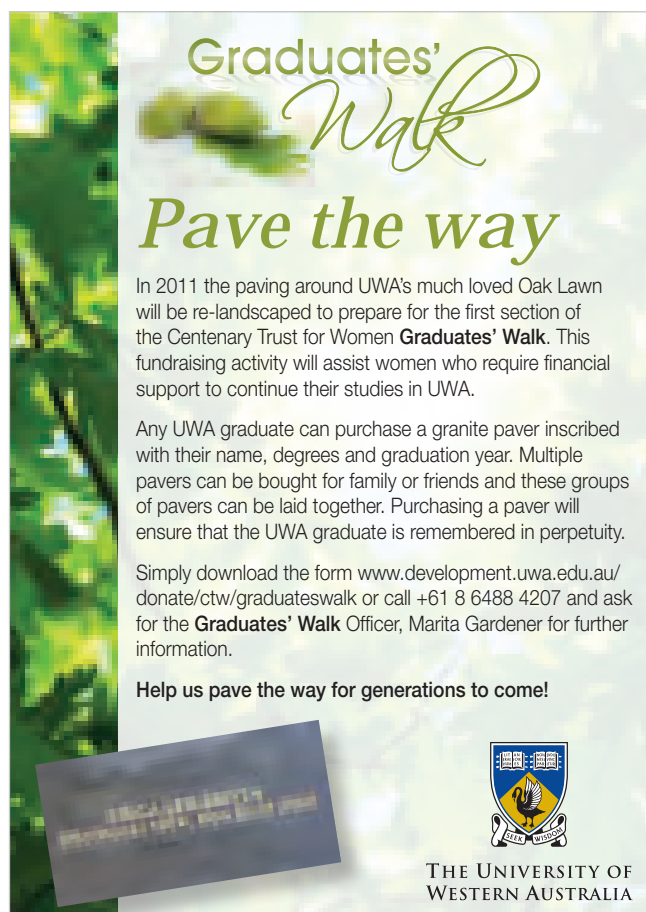
Elizabeth Rutherford took great pride in mentoring new researchers and in fostering collaborations that fused different academic traditions in order to provide new perspectives on emotion and more powerful ways of testing these ideas.

Says Professor MacLeod: "Elizabeth demonstrated a wonderful gift for spanning academic divides and for creatively fusing the best elements of past traditions to yield intriguing insights, compelling hypotheses and powerful new investigating techniques."

Elizabeth Rutherford's exceptional scholarship enabled her to communicate globally. Her academic legacy – facilitated by her family's generosity – allows that conversation to continue and to flourish.

>>CONTACT

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Graduates' Walk
Pave the way

In 2011 the paving around UWA's much loved Oak Lawn will be re-landscaped to prepare for the first section of the Centenary Trust for Women **Graduates' Walk**. This fundraising activity will assist women who require financial support to continue their studies in UWA.

Any UWA graduate can purchase a granite paver inscribed with their name, degrees and graduation year. Multiple pavers can be bought for family or friends and these groups of pavers can be laid together. Purchasing a paver will ensure that the UWA graduate is remembered in perpetuity.

Simply download the form www.development.uwa.edu.au/donate/ctw/graduateswalk or call +61 8 6488 4207 and ask for the **Graduates' Walk** Officer, Marita Gardener for further information.

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UWA and its Friends

As it enters the first of three significant years spanning its Centenary celebrations, The University of Western Australia has much to celebrate – including the fact that so many graduates and others associated with the University continue to enjoy strong and satisfying ties with the campus.

Friends groups are thriving at UWA, bringing those who studied, worked or were associated with UWA back to the University's campuses.

UWA's Friends clearly appreciate their ongoing involvement with the University along with the opportunity to forge and renew friendships while enjoying activities that range from challenging geological field trips to propagating plants and planting bulbs that colour the campus each Spring.

Friends groups also play a special role in supporting current students through scholarships and in purchasing new works of arts or rare volumes for UWA collections.

Maintaining links with UWA is important to graduates says Rose Chaney, Chair of the Friends of the Grounds. "We feel we're contributing to the University and benefitting from our contact," she observes. "It gives us a small ownership of a beautiful and enriching place."

The fact that they have yet to establish a formal group doesn't worry those whose stock of UWA memories includes performing in campus productions – in the Sunken Garden, the Undercroft and in the University's theatres. They enjoy regular gatherings whenever there is an anniversary to mark.

Dr Joan Pope, who appeared in many campus productions, relishes the chance to catch up with colleagues at such gatherings. She is also involved in the 'backstage' organisation of such functions as

well as the time-consuming research that underpins building a theatrical archive.

"To me, a Friends group allows me to keep my foot in the door at my old Uni and gives me a feel of what's going on," she says. "It also helps that I can recall old faces on photos when necessary and can usually find addresses that might otherwise be 'lost'."

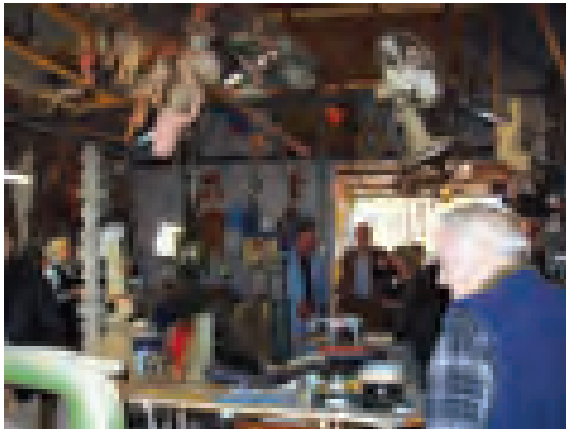
Rose Chaney and Joan Pope are familiar faces at the annual Combined Friends social mixer held towards the end of each year. This lively event inevitably results in some guests opting to join a second Friends group because the program sounds so enticing.

In this article we look at some of the Friends groups, and in a future article will explore other groups involving graduates, such as the UWA Historical Society. While many members of Friends groups are graduates or have links with the University, membership is open to all.

For more information about Friends groups at UWA, visit the website: www.development.uwa.edu.au/friends

Above: Vice-Chancellery © Eigel Nielsen, one of the images in the Friends of the Grounds 2011 calendar. Top right: Joan Pope (second from left) with Peter Bibby, Diana Warnock and Penny Sutherland (who were involved in Uni Revues at the Old Dolphin in the 60s) mark the 40th anniversary of the Octagon Theatre. Bottom right: Friends of the Festival Judy Reid, Jo Malone and Rose Chaney who is also Chair of Friends of the Grounds, at a Combined Friends social mixer that is held annually

Friends of Lawrence Wilson Art Gallery



Friends of Lawrence Wilson Art Gallery visit the studio of artist Hans Arkeveld in the hills

This year the Lawrence Wilson Art Gallery celebrates its 21st anniversary while its Friends group marks its 25th. To mark these occasions a gala dinner will be held in the gallery later in the year.

Members of the group (currently 280) enjoy a range of benefits including invitations to exhibitions, reciprocal benefits at other galleries and events such as visits to artists' studios. Members have also seen some impressive private collections.

Jeffrey Campbell, President of the group as well as being Chair of the UWA Combined Friends, says that such groups provide considerable support to the University, citing the funding of the first comprehensive book on the University's art collection.

Contact: Jeff Campbell, 0417 932 259
(jeff.campbell@health.wa.gov.au)

Friends of the Grounds

Members of this energetic group rise at dawn to hear the Winthrop Singers heralding the arrival of Spring from Winthrop Hall tower, are getting to know the birds on campus through guided tours and are raising funds through the sale of plants they propagate in campus glasshouses.

"The grounds of UWA form a strong part of my memories and it's fantastic to still feel that connection," says Rose Chaney, Chair of the group.



The Friends of the Grounds propagation group at work and making sales at their annual fund-raising plant sale

"I particularly enjoy our propagation group. We all bring cuttings and seeds from home, learn from each other while we work and inevitably friendships are formed.

"We have two plant sales each year, so I feel we're contributing to the University and benefitting from our contact with it".

The University's National Estate-registered grounds feature in the group's successful fund-raising calendars and postcards that are on sale through the Visitors Centre and through the Friends website. The inaugural *Four Seasons at UWA* photographic competition provided many of the images featured in the 2011 calendar and a second contest *The Centenary of Seasons* is under way to illustrate the 2012 calendar. Entries close on 31 May.

One of the first FOG events for this year will be a tour of the 3D virtual world of Second Life that highlights UWA success in using this medium across several disciplines. This insight into new technology will be followed by the more traditional annual bulb planting in April, a winter film afternoon at the Claremont campus and a guided walk through St George's College.

For more information, visit: www.uwa.edu.au/fog



Volunteers Tony Keane (left) and Michael Shepherd (right) giving a coat of oil to one of the commemorative benches

Friends of the Library

Founded in 1966, the Friends have raised funds to assist the University Library to enrich its resources and foster scholarship at UWA.

"Over the years we've managed to purchase some remarkable and rare books, some of which are on view in the Reid Library," says Emeritus Professor David Tunley, President of the group.

The group has more than 80 members who meet once a month to enjoy the group's lectures, film nights at the Windsor Theatre and a memorable Christmas party featuring poetry readings, music and entertainment.

The 2011 monthly program of talks includes topics as varied as *WA's severe weather* and *Families in the Goldfields: 1985*.

Dr Mary Davies, University Librarian and Director (Information Management) will be addressing the

Friends at their first meeting this year on 8 March, on the subject of *UWA's Information Services Investment Program*. For details, contact Liz Tait on 6488 2356.

Friends of UWA Albany



Associate Professor Andrew Turk was presenter at a recent philosophy café organised by Friends of UWA Albany

Formed in 1998, the Friends began as a support group for the UWA Albany Centre. The group now has some 170 members and provides the much appreciated Amity Prizes that are funded by membership fees, donations and fund-raising.

Meg Hannington, President and Marie Mercer, Treasurer, are graduates of the UWA Albany Centre while another committee member Murray Arnold is completing his PhD at the Centre. City of Albany Mayor Milton Evans and wife Muriel are on the committee and are strong supporters of UWA.

Apart from helping with the Perth Festival in Albany, open days and official functions, the group has a lively program of social events like philosophy cafés and sandwich seminars. The biennial Amity Lecture is a successful fund-raiser sponsored by the City of Albany and the Albany Community Bank. In March 2011 the Friends will host a philosophy café as part of International Women's Day centenary celebrations.

Membership of Friends is open to all and the committee includes representatives from the students, Centre staff, the Foundation and the Office of Development and Alumni Relations.

Contact: Meg Hannington (email: megh@westnet.com.au)

Friends of The Edward de Courcy Clarke Earth Science Museum

A shared fascination with the earth sciences binds members of this group. Promoting the Museum and increasing awareness of earth sciences in general (and its study at UWA) is at the core of this group which enjoys informative talks and workshops, field trips and outings, assisting with the preparation of displays and curation work. Members staff the museum on Sunday afternoons.

Visit the website: www.earthmuseum.see.uwa.edu.au

Friends of the Winthrop Singers

With their vibrant brand of choir singing, the Winthrop Singers has won a wide audience. The Singers have travelled to New Norcia, Albany, Geraldton and (the highlight of last year) the International Society of Music Education Conference in Beijing. Comprising undergraduates from several faculties, the choir is a partnership between the School of Music and St George's College.

Conducted by Professor Nicholas Bannan of the School of Music, the choir sings Evensong at the college chapel each Thursday evening during semester. The Friends group was formed to support the choir through publicity, fund-raising and social functions.

The group recently recorded a CD, *A Mediterranean Christmas*, in the Abbey of New Norcia. Visit the Winthrop Singers website on: www.thewinthroppsingers.wordpress.com/ or email: friendsofthewinthroppsingers@yahoo.com.au



Winthrop Singers performing at a Centenary Trust for Women event at the Lawrence Wilson Art Gallery

Friends of UWA Athletics

In 1997 an informal group was established to enable former UWA athletes to meet socially, to connect with the current UWA Athletics Club, to assist in preserving the history and traditions of the club founded in 1928 and to help organise special anniversary dinners.

In 2009, this group was superseded by Friends of UWA Athletics, established under the auspices of the Hackett Foundation. Former members and friends responded generously to an invitation to donate to a fund which will provide scholarships and grants to UWA students who are competing members of the UWA Athletics Club; support for the club's activities and help in recording its history. Former athlete Professor James Wieland has been engaged to research and write the history with a view to publishing it this year.

For further information visit the UWAAC website: www.uwaac.com and follow the links to 'Former UWA Athletes', 'Friends of UWAAC' and 'Image Gallery'. For more information contact Don Young (details on the website).

Friends of UWA Rugby Football Club



Friends of UWA Rugby Lunch 2010 special guests presenters Tim Horan (left) and Dan Crowley (second from right) with Steve Waddingham (UWA Business School), Rick Wolters (UWA Human Movement) and Damian O'Donnell

The UWA Rugby Football Club established a Friends group in 2000 that aimed to "return the UWA Rugby Club to a position of pre-eminence in Western Australian rugby".

The objective of the Friends is to establish a foundation to meet the annual expenses of a scholarship and bursary scheme to attract and retain new players, develop a Friends Supporters Club where all members (past and present) can stay in touch with the Club's achievements and host an annual event to meet leading rugby personalities, raise funds and

add to the camaraderie that already exists in the club. These events have seen many past players maintain and renew friendships which is central to the social foundations of the UWA Rugby Club.

To date the Friends have provided scholarships to more than 60 students, providing opportunities for student athletes to strive for excellence in rugby while studying at UWA.

The annual pre-test lunch is now a club institution with the likes of Nick Farr Jones, Rob Egerton, Brendan Cannon, Richard Harry, Tiann Strauss and Tim Horan being memorable guest speakers at this event. Mark in your diaries 10 June 2011 at The University Club from 12noon for this year's get together.

For more information and opportunities to donate, please contact Rick Wolters at rwolters@sport.uwa.edu.au or visit the club website: www.rugby.uwa.edu.au

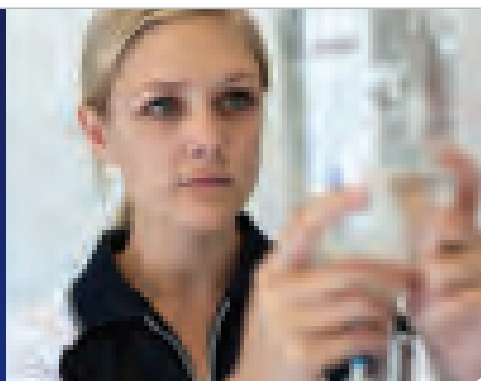
Friends of the Festival

Avid supporters of the Perth Festival for over 30 years, this group enjoys many opportunities to participate in special events, attend functions and receive a wide range of benefits. Friends are the first to see the program line-up and benefit from the Friends priority booking period.

For more information visit the website: www.perthfestival.com.au/supporting/ourfriends/

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Extending a helping hand to the region

In the aftermath of the 2004 tsunami, a UWA physician and a Perth entrepreneur established an institute that makes it easier for Perth-based specialists to reach disaster areas and for Indonesian health workers to receive training in emergency medicine.

Legacies come in different forms – from bequeathed wealth to a life well-lived in terms of investments in ‘social capital’.

For local entrepreneur Michael Henderson, an Adjunct Professor in the Faculty of Medicine and Dentistry, the legacy of two extraordinary grandfathers spans both, and has spurred his own promotion of international healthcare, his engagement with this University and his role in a UWA-based institute that raises the profile of our State as a ‘good neighbour’ to the region.

“Both my grandfathers considered public service to be a family obligation,” observes A/Professor Henderson as he reflects on the life and work of two much-honoured men, Dr Gilbert Henderson and George Boucher.

Dr Henderson was a specialist in oral surgery who worked tirelessly to improve dental standards and was a founding member of the State Branch of the Australian Dental Association. A clinical teacher, administrator and surgeon, he set up the maxillofacial division at Royal Perth Hospital and his long association with UWA is remembered in the G D Henderson Prize in Oral Surgery.

George Boucher’s contribution to the State benefitted young and old. His many commitments

included serving as Chair of the board of Princess Margaret Hospital for three decades and as Vice-Chairman of the Homes of Peace (now Brightwater). A Commander Brother of the Order of St John of Jerusalem for his services to St Johns Ambulance, he was on the board of the precursor of the Lotteries Commission and was a Trustee of the College of Nursing.

“Being the product of two people who did much to improve health facilities in and beyond this State, I wanted to continue a family tradition of community service,” says A/Professor Henderson, who is Chief



Above: Devastated Meulaboh, in Aceh, from an Australian C41 Hercules doing a survey of the coastal area (Photo © The West Australian). Right: Professor Bruce Robinson with one of the children who survived the 2004 tsunami that killed their parents

Executive of the major international architectural firm Sandover Pinder and Chairman of the Australia Indonesia Business Council WA.

"What I find rewarding is bringing together like minds, creating sustainable entities with good governance and what I am doing now in international healthcare is to use my corporate resources and skills to establish a global aid institute that has huge potential – and that capitalises on the amazing medical specialists we have in this State."

It was a phone call from one of those specialists, his good friend Winthrop Professor Bruce Robinson – recognised internationally for his work on asbestos-related disease and cancer immunology – which was the starting point for the UWA-based International Skills and Training Institute in Health (ISTIH) that will be launched later this year.

At the time, television screens were full of images of the devastating effects of the 2004 tsunami on our nearest neighbour and the UWA specialist was frustrated at the pace of response. He wanted to get to Aceh and asked Michael Henderson to send a plea for help with transport through the entrepreneur's corporate networks.

Within hours a flight had been organised plus a helicopter to take Professor Robinson into the disaster zone. Because he was working with an Indonesian team he was able to operate in areas of the devastated province that high profile aid organisations hadn't been able to reach.

It was traumatic work at Meulaboh Hospital, south of Banda Aceh, which was hardest hit by the tsunami. The UWA professor recalls the children orphaned by the devastating waves of water. "They were playing soccer when it hit, but they were good swimmers. They lived on the street near our hospital tent and we fed them every day. You could see the sadness in their faces. The day we heard their stories I got back to my room late at night, shut the door and just wept for them and the thousands like them. That is why we go to help."

BECAUSE MOST OF THE VICTIMS OF DISASTERS DIE IN THE FIRST 12 TO 24 HOURS, IT'S VITAL THAT HEALTH PROVIDERS ARE HIGHLY TRAINED

With the emergency behind them, the entrepreneur and the physician were determined to pool their corporate and medical networks by establishing the International Skills and Training Institute of Health. Their initiative had strong appeal and they soon rallied a core of support including this University, WA Health and Curtin University of Technology, Deloitte and Clayton Utz. And almost immediately, there were promises of funds from individuals and the business and broader community.

Says Professor Robinson: "There's a big natural disaster in Indonesia about once a year – for example recently both a tsunami and a volcanic eruption – and we're well placed in this State to respond. We knew we needed a two-fold approach for the Institute: training local health workers in their own countries and having the capacity to respond to disasters. And it's proving to be very effective."

Proof of that is the Institute's response to several major disasters in recent years. ISTIH's node in Indonesia – based at the University of Indonesia and the 2,900 bed CIPTO Public Hospital – has mobilised teams and resources during the 2010 tsunami and has despatched emergency teams to earthquakes in Sumatra (2008) and Haiti (2010).

"Doctors trained in part by Professor Robinson over the last five years were among the first aid groups to arrive in the Mentawi Islands, the area worst hit by the recent tsunami," says A/Professor Henderson.

"One of ISTIH's main areas of work in our region is the provision of high quality emergency medicine training. Because most of the victims of disasters die in the first 12 to 24 hours, it's vital that on the ground health providers are highly trained in emergency medicine.

The initiative has been welcomed by the Indonesian Government and the University of



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Indonesia. With Indonesian health workers benefitting from training at the impressive facilities at UWA's Clinical Training and Education Centre (CTEC), the idea of establishing a similar facility in Indonesia was born. The \$40m facility in Jakarta is now nearing completion and will be officially opened early in May.

But Michael Henderson and Bruce Robinson are not relaxing; they would like to see the Institute's achievements in Indonesia duplicated throughout the region. "The Institute can provide specialist advice in the development of aid projects, policy, the development of skills and training for health workers and other global aid needs," says A/Professor Henderson, "Because of our expanding activities in the region, we'd like to see more AusAID funding coming into WA."

Professor Robinson adds: "The Institute's approach is multidisciplinary in managing aid projects and we collaborate with government and non-government organisations. With its range of alliances, ISTIH can provide a holistic approach to the provision of services to the aid sector."

At present the physician and the entrepreneur are looking forward to the official opening of the Indonesian Clinical Training and Education Centre and that of the UWA-based Institute at the Claremont campus.

"The corporate community is responding brilliantly, with people like Harold Clough stepping onto the board of the Institute, and major legal and accounting corporations throwing their support behind the initiative," says A/Professor Henderson. "We've also benefitted from the help of professionals volunteering assistance and UWA Vice-Chancellor, Professor Alan Robson, has been particularly supportive."

"Until recently we've been working under the radar with Bruce and me juggling much of the work with our own professional commitments, but now we feel the time is right to make people aware of just how much has been achieved by ISTIH to date and to start mapping out our vision for the future."

"For me, having established the Institute is a wonderful return for the support that the University has provided to many clever people in our community – people like Professor Fiona Stanley, Professor Bruce Robinson and Professor Allan Kermode."

I would like to see ISTIH grow and become a much more effective catalyst for delivering health outcomes across the region. We talk a lot about building economic partnerships with our neighbours, but if at the same time we fail to build community outcomes, we lose part of the value of such endeavours.

"This University has a strong track record of engaging with the region and my hope is that the Institute can add value to these links, so that the profiles of our universities – and that of our State – are enhanced by being a good neighbour."

A/Professor Henderson, among other professional positions, is Chairman of the Board of Governors of



THIS UNIVERSITY
HAS A STRONG
TRACK RECORD
OF ENGAGING
WITH THE REGION

ISTIH. The board of the Institute includes Dr Harold Clough, Chairman of McRae Investments; Mr David Singleton, CEO of Poseidon Nickel; Mr Peter Iancov, CEO of DORIC; Mr Michael Schoch, Vice-President, Production in Australia, Shell Development; Mr Brett Mattes, CEO Energy, Barito Pacific Group, Jakarta and Star Energy Holdings, Singapore; Professor Ian Puddy, Dean of UWA's Faculty of Medicine, Dentistry and Health Science; Professor Bruce Robinson, Professor in Medicine at the UWA School of Medicine and Pharmacology; Dr Andrew Robertson, Director of Disaster Management, Regulation and Planning in the Public Health Division of WA Health; and Associate Professor Celia Cornwell, Dean (International) Faculty of Health Sciences, Curtin University.

*Above: Wearing the T-shirts promoting the NGO that ISTIH works with, Professor Robinson conducts bronchoscopy training at Meulaboh Hospital, just south of Banda Aceh, which was hardest hit by the 2004 tsunami
Inset: Adjunct Professor Michael Henderson*

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Cultures combine to create shelter

Origami and earthquakes are the unlikely bedfellows that combined to produce a shelter for communities affected by natural disasters. Lindy Brophy reports.



Two young Italian architects used traditional Japanese techniques to win an Australian competition to design an easily constructed shelter that won the UWA Convocation Pavilion Prize, co-ordinated by UWA's Cultural Precinct.

Their shelter will be constructed on Whitfeld Court, in front of Winthrop Hall, during the Perth International Arts Festival.

The design will be the subject of a Business School summer school unit, to produce a business

model and development plan, to try to ensure the shelter will become part of international aid agencies' rescue packages, rather than languishing as the winner of a competition.

Prize winners Elisa Mansutti and Luca Pavarin are architectural graduates from the engineering school at the University of Udine, in north-east Italy. The University was founded in 1978 as part of a reconstruction plan for the region, following a major earthquake in 1976.

Coming from a community with relatively recent experience of a natural disaster, Elisa and Luca were keen to put their skills into helping people in similar situations.

"We studied origami and its theory of self-supporting structures, in our architecture units," Luca said.

"It is a very simple structure to erect," Elisa said. "Just 13 aluminium poles in the ground, then the seams of the fabric will hold it up."

The honeycomb-like design sleeps 12 people and includes compartments around the outer part of the pavilion, off the big communal area in the middle.

The designers were given a brief for an economical shelter (less than \$12,000), easily deliverable to remote areas, using green technologies.

They brought together the best of several tent designs, rejecting those that needed guy ropes and the traditional emergency tent that does not provide any private compartments. They adopted the idea of the nomadic tent, using layers of fabric, depending on the weather (ensuring their design could be made with different densities of fabric), and the family camping tent, which uses zips to enclose or open out areas of different sizes.

Convocation, the UWA Graduates Association, chose to sponsor the Pavilion Project. Convocation Warden Simon Dawkins said the project was innovative and represented the international aspirations of UWA.

"We have supported the project and council members Fran Pesich and Warren Kerr (both architectural graduates) along with Ian Passmore

*Above left: Elisa Mansutti and Luca Pavarin turned to origami to win the competition which will see their shelter constructed in front of Winthrop Hall (Photo: Lindy Brophy)
Inset: Artist's impression of the shelter*

Convocation, the UWA Graduates Association

are working to implement it with the UWA Cultural Precinct," Mr Dawkins said. "Our team will be looking at its use during the Festival and its possible uses afterwards."

A total of 76 entries from 24 countries were judged by a panel headed by Winthrop Professor Geoffrey London. They had to choose an entry which fused art and architecture to create an environmentally-friendly shelter.

The designers were brought to Perth by the UWA Cultural Precinct to arrange manufacture and construction of their shelter. They have been talking to a manufacturer of tents for the armed services and

estimate that the light-weight, strong and waterproof material they will need for their 144 square-metre pavilion will cost just \$2,000. The aluminium poles would be extra.

Assistant Professor Jo Sneddon, who is running the Entrepreneurship and Innovation unit which will develop a business plan for the pavilion, said she hoped to be able to work with a relief organisation set up after the tsunami in Sri Lanka.

Elisa and Luca have returned to Italy to start their Masters in Architecture at the University of Milan, but are planning to be back in Perth early this year for the construction of their shelter.



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CONVOCATION, THE UWA GRADUATES ASSOCIATION

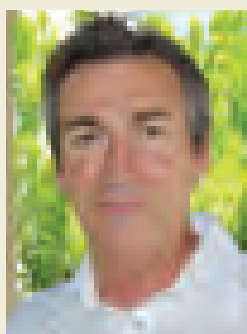
invites all graduates and other members of Convocation to attend its

First Ordinary Meeting

to be held on **Friday, 18 March 2011** at 6.30pm for a 7.00pm start in The University Club of Western Australia, UWA

With reports from the Vice-Chancellor, Professor Alan Robson; the Warden of Convocation, Mr Simon Dawkins; and the Guild President, Mr Tom Antoniazzi.

The results of the 2011 Convocation elections will be announced at the meeting.



Guest Speaker:

Research Associate Professor David Indermaur, UWA Crime Research Centre, will address the topic of

Minimising harm: a rational response to the tragedy of crime and the limits of justice

Having worked in WA's prisons as a psychologist in the 1970s, Associate Professor David Indermaur became concerned about the effectiveness of imprisonment. The UWA

graduate studied criminology in Canada and returned to WA as a policy-maker at the Department of Corrective Services. He was recruited to UWA's Crime Research Centre in 1993, researching various forms of violent crime and completing a PhD on the psychology of violent offenders. He has also taught Criminology at UWA's Law School since 1995. He has been involved in evaluating a wide range of efforts aimed at reducing crime and maintains a wide variety of links in the field.

RSVP to +61 8 6488 3006 or via email: convocation@uwa.edu.au
Refreshments will follow the meeting.

Election of Warden and Deputy Warden of Convocation

and

Election of One Member of Senate by Convocation, the UWA Graduates Association

Candidates for the position of Warden are:

Lesley Ann CALA
David Ivor HODGKINSON

Candidates for the position of Deputy Warden are:

Lesley Ann CALA
Richard James HARPER

Candidates for the position of Member of Senate are:

Roderick Quentin COOPER
Jennifer Ann WEIR
Chad Steven SILVER

Voting papers are enclosed and must reach the Convocation Officer in the envelopes provided no later than 5.00pm Tuesday 8th March 2011.



From the Warden



There are a few factors leading towards a more interesting and engaged Convocation as we head towards the First Ordinary Meeting in 2011 and into the first year of a three year centenary program.

The first year of the centenary celebrates the passing into law of the Act of Parliament to create

UWA, cementing forever the role of graduates in the governance of the University alongside the Senate and the students. The preparation for this special moment in the State had come after many years of consideration and what resulted was a progressive approach to a "free" University and a culture that remains with UWA to this day.

The activities program continues to provide a profile for Convocation, but perhaps more than ever Convocation is building links to engagement with other parts of the University and has expressed its determination to grow in stature and recognition. In order to remain a leading university with strong adherence to low student staff ratios and strong research, UWA has made it clear that only determination and adherence to clear strategic goals will enable the University to retain its best features and move to another level.

The best articulation of this determination is the address that the Vice-Chancellor presents to the Ordinary Meetings of Convocation. Professor Allan Robson always presents a clear overview of the achievements of UWA and addresses the issues facing the University from time to time – or that linger

until resolved. Professor Robson is leaving at the end of 2011 and it is timely to place on record the appreciation of Convocation for his support of our endeavours but more importantly for his extraordinary contribution to the University over many years.

During the first half of 2011 the UWA Convocation Pavilion will be present on Whitfeld Court outside Winthrop Hall. This project which is covered in detail in other pages of this Uniview, is an exciting departure for Convocation. We have sponsored the Cultural Precinct initiative and are grateful for the opportunity to make Convocation more visible to the new graduates and the public as a whole. We are indebted to Fran Pesich, Ian Passmore and Warren Kerr for making time to lead the implementation of this project on behalf of Convocation.

The other initiative which will have made progress is the program to seek connection directly with graduate bodies and create a sense of Convocation as a peak body for graduate engagement with UWA.

A significant new feature of the year was the Convocation UWA Senate Dinner which was held in November. Most of Convocation Council attended and reflections on the quality of discussion and the deeper understanding of each other's roles have been relayed to me over subsequent weeks. I believe this occasion will become an annual event and build a good basis for the future effective relationship between the two bodies.

Meanwhile the many activities of Convocation continue under the coordination and guidance of the Convocation Officer Juanita Perez and Administrative Assistant Brett Tidy. The "Review of the Statute", a commitment of the Strategic Plan has commenced and achieved great progress under the leadership of David Hodgkinson, the Deputy Warden and Convenor of the Statutes Committee. This project will result in some suggestions being recommended to Senate for legislative amendment by the State Government to clarify, simplify and modernise the functions and responsibilities of Convocation and its relationship to the University as a whole. The awards and prizes were as usual fraught with a big problem – how to choose from such great applicants the winning Sports Star, the Matilda Award for Arts and Cultural Excellence among students and the 19 Convocation Postgraduate Research Travel Awards. In addition Convocation provides over 50 Undergraduate Faculty Awards where the winners are nominated by the faculties. If you want to contribute to your University, supporting the Convocation Awards is a very good way to do it!

Simon Dawkins
Warden

Contributing to Excellence

If you would like to contribute to excellence by donating to the capital funds for any of the prizes, awards or bursaries offered to students by Convocation, please contact the Office of Convocation. Donations of \$2 or more are tax deductible.

Please contact:

Ms Juanita Perez, Convocation Officer
Office of Convocation, the UWA Graduates Association
The University of Western Australia
M362, 35 Stirling Hwy CRAWLEY WA 6009

Phone: +61 8 6488 3006

Fax: +61 8 6488 1063

Email: convocation@uwa.edu.au

Web: www.graduates.uwa.edu.au



50th Reunion Lunch

Later this year Convocation will be hosting their annual Reunion Luncheon celebrating the 50th Graduation Anniversary for the graduates of 1961.

Graduates who have already celebrated their 50th Anniversary with us (or who could not attend earlier functions) are welcome. A formal invitation will be sent to all.

Experience has shown that we need to start the hunt for those graduates with whom the University has lost touch as early as possible. We have also found that the best reunions are those which have had a sub-committee of volunteers helping to organise the event. We would therefore very much like to hear from any 1961 graduate who would like to be involved. Your assistance will be much appreciated!

Below is a list of the 1961 graduates for whom we need addresses. If you have any idea of their whereabouts, please let us know.

Geoffrey G Allen, Veronika Biskup, Colin G Blake, Gillian R Boundy, Roger B Bulstrode, Robin J Clarke, Betty M Cockman (Cole), David L Cook, Betty A Crompton (Kirby), Peter R Dalton, Kasim Dangkoa, William E Davies, William S Davies, Lyle M Davis, Cedric De Passey, Daphne M Evans (Chaloner), Rose Finkelstein, Ian E Fraser, Carlos S Furtado, Elizabeth A Gelsey, Michael D Giles, Irene T Goerke, Nigel F Guest, Kelvin H Hanks, Ruth M Henderson, Donald Hogben, Maureen E Hughes, Edwin P Hutabarat, Iordanis G Iordanou, Mary Johnson, Nai M Kee, Richard N Keet, Brian R Kennedy, Robert J Lawson, Julia M Leat (Munday), Robert S Lecky, Robert A Liddell, Harold F Lydall, Gordon C MacNish, William L Marsh, Geoffrey J Martin, Ian D Martin, Herbert J McCarthy, Neville T Mc Gill, Andrew K McGurk, Donald A McCallum, Douglas D Meikle, Margaret R Middleton, Donald G Moore, John L Mumme, Mary-Anne Neumann-Shebek, Nicholas A Nicholls, Ross E Nicholson, Suat B Ong Choo, Vivian S Palmer, Chris Panos, Beatrice M Parker, Elizabeth J Parry (Rippingale), Angela Reagan (Vincent), Peter V Rumbold, Colin N Ryan, Lilian M Shackleton, Harry J Sheiner, Harry L Simmons, Gavin M Sinclair, Nadarajah Sinnatamby, Georgia A South, Venkateswarier Subramaniam, Murray G Swain, Helen M Temby, Jane L Terry, Elsa P Thompson, Ai K Tong, Peter W Tormey, Alban E Travers, Gordon W Trenberth, Rudolf O Van Der Vossen, Judith R Vincent, Aidan J Walsh, Norman C Watt, Veronica R Williams, Musrikan Wirjasudarma, Hendrik Wolzak, Moh C Wong, Peter N Wood and Wanda M Woodhouse (Robertson).

Please contact Juanita Perez, Convocation Officer, on +61 8 6488 1336 if you have any information or if you would like to help organise this year's event.

At the 50th Graduation Anniversary for the graduates of 1960

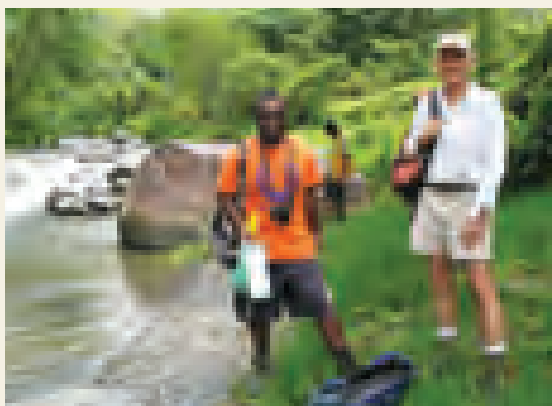
Top: (l-r) Jennifer Searcy, Margaret Kneebone and Jennifer Hassell
Centre: (l-r) Event host Simon Dawkins, Warden of Convocation, with Ricki Hewitt, Malcolm McCusker, Diana Warnock, Philippa O'Brien and Collin O'Brien. Bottom: (l-r) Laurie Best, Phil Best, Joan Robins, John Robins and Jill Maughan (Photos: Terry Larder)



Keep in touch!

"Grad Briefs – they're the first thing I read," writes one graduate. "They often remind me of former classmates and colleagues and have enabled me to repair and resume long-lost friendships," writes poet, author and graduate William Grono. That's what Grad Briefs networking is all about, so let us know where you are, what you're doing and put us in the picture: hard copy (which we'll return on request), digital image (tif or jpeg file at 300 dpi). Email to terry.larder@uwa.edu.au or post to Terry Larder, The University of Western Australia, M427, 35 Stirling Highway, Crawley, WA 6009. We'd love to hear from you.

1950s



Hugh Davies (BSc 1956, MSc 1963) is in Port Moresby at the University of Papua New Guinea, where he teaches Earth Sciences and lives on campus with wife and daughter. He returned to teaching this year after 30 months seconded to the PNG Government Geological Survey. Hugh continues to be fascinated by PNG geology, the beauty of the country, the people, and teaching. Earth Sciences has six academic staff and graduating class sizes are 20-25. Most graduates are employed by industry and many have been attracted overseas to Africa, Asia, Australia and Indonesia.



Andrew Johnson (BSc(Hons) 1959; MSc 1961; PhD 1966) writes that he was fortunate to study for his PhD in 1963 at the CSIRO Division of Chemical Physics in Melbourne. His supervisor was Professor A F Moodie who revolutionised Andrew's understanding of electron diffraction. This period was one of great advancement in the understanding of electron scattering by crystals, led in large part by Australian scientists in Melbourne. In 1983 Andrew returned to Perth with his then wife, Penny, and children. His daughter **Annabella** (BA(Hons) 1992), completed her degree at UWA and now lives in Manhattan with her architect husband. His sons completed their education in Perth, **Matthew** (BEd 1994) at UWA and Tim at Curtin University of Technology. Andrew was previously Director

of UWA's Centre for Microscopy which, in 1983, was in need of modernisation due a rapid advance in instrumentation. It was an exciting period in which the Centre grew substantially. It now provides a wide range of advanced microscopy, micro-analytical techniques and allied courses for UWA researchers, students and outside users. Andrew retired from the Centre in 2003 but is still actively involved in research and consulting as a Senior Honorary Senior Research Fellow.



John Cohen (BDSc(Hons) 1959) is retired and lives in Michigan. He has a postgraduate degree from the University of Michigan and previously practised as a root canal specialist. John is an Emeritus Adjunct Professor of Dentistry at the University of Detroit-Mercy School of Dentistry. In his retirement he enjoys travel and volunteering. Former classmates can contact him at aussiejohn@comcast.net

1960s

Richard Radica (BA 1966) retired from the State Public Service in 1992 after 34 years of service. He then opened Brandos Pizzeria and Cafe, which is now run by his son. Richard also ventured into the music industry and took over Rokeby Records in 1993. Last year his life story, *The Rope to Freedom*, was published by in the UK by Guild Publishing.



Patrick Alexander (BJuris 1976) is a private equity player and venture capitalist living in Jakarta. Since 1977, he has lived in Hong Kong, USA and Indonesia. Former classmates can contact him at alexander.patrick@gmail.com

1970s



Esme Park (BA 1970) After teaching, marriage and raising four sons, Esme completed an Arts degree in 1970. This recent photo was taken at the launch of her first novel *Who Steals the Fire* at the Katherine Susannah Prichard Writing Centre.

Parisse Kailis (BA 1975; DipEd 1978) is currently a TAFE lecturer and is also developing her own small business, My Odyssey, which specialises in culinary tourism. Former classmates can contact her at parisse@perthict.com



Krisda Piamponsanta (BA 1975) is currently Deputy Permanent Secretary of Thailand's Ministry of Commerce.

1980s



Mary Argese (née Cosenza) (BSc 1981) writes that she is a single mum with four teenage daughters and runs her own business as a life and business coach, Coaching Business Success. To keep fit and healthy she trains at a boxing club and dances several times per week.

Marion Milton (MEd 1985; PhD 1990) has been recently appointed to the position of Director of Teaching Education (Undergraduate) at La Trobe University, in Melbourne.

Peter Lyon (BA 1988) reports that he continues to write for car magazines in the US, UK, Italy, Germany, Japan and Australia. He realised a dream this year when he competed with the

World Car Awards team in the legendary 24-hour Nurburgring race in Germany. They were placed fourth in their class and 59th out of 197 cars. Peter lives in Tokyo and can be contacted at cruising@peter-lyon.com

1990s

Calverly Gerard (BE & BCom 1994) is a PhD candidate in the University of Tasmania's School of Engineering. He also works one day a week as Laboratory Support Engineer at the university.

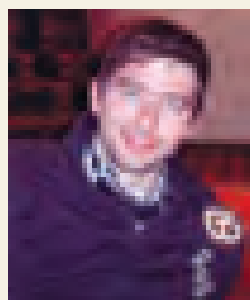
Mark Davis (BCom 1997) is the National Manager for Energy and Natural Resources at KPMG, in Perth. Former classmates can contact him at markdavis@kpmg.com.au

Rabia Siddique (BA 1997; LLB 1995) married RAF Officer Anthony Green in 2004. She left the British Army Legal Services in 2008, having served in Northern Ireland, Germany and Iraq. Rabia now works as a Crown Advocate in the Counter Terrorism Division of the Crown Prosecution Service based in London. She writes that in October 2008, she gave birth to triplets and that the family is hoping to move back to Australia in the near future. Former classmates can contact her at rabiasiddique@yahoo.co.uk

2000s

Patrick Hubble (BEnvDes 2001; BArch 2003) writes that he returned from Sri Lanka last year, where he conducted an Urban Design Course and helped with the master planning of a southern coastal village as part of the 2004 post-tsunami reconstruction project. He is continuing with being a principal architect with Architecture Collective. Former classmates can contact him at patrick@architective.net.au

Teresa Wong (BSc & BE 2002) completed her PhD in Hong Kong studying childhood autism's brain response to facial expressions. She now lives and works in Sydney for the Multiple Sclerosis Brain Bank (www.brainbank.org.au). Former classmates can contact Teresa at wongkwt@gmail.com



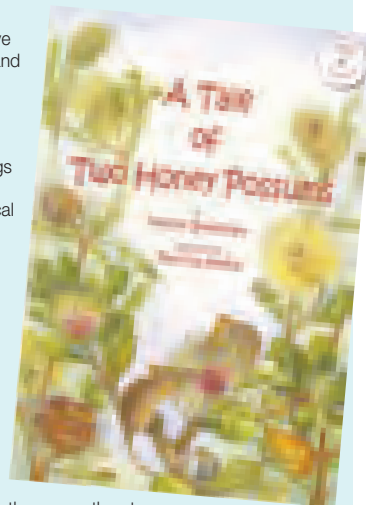
Ben Schmitt (BSc & BE(Hons) 2000) began his working career with Tenneco Automotive in Germany, where he researched the simulation of road-car exhaust system fluid dynamics. His aim was to work in the motorsport industry so the position provided a stepping-stone to Europe. He then began working in the UK for Pi Research, a motorsport data and control-systems company wholly owned by Ford Motor Company of Europe. While working for Pi he was hired out as a trackside engineer to Endurance Sportscar and CART Champcar teams competing in Europe and America. He had the opportunity to run a racecar simulation project with Ford, which involved 3D mapping the longest circuit in the world then validating the vehicle and track models with real laps performed by the car. Ben currently works as a mechatronics and simulation engineer for Andretti Autosport in Indianapolis, USA.

John Templeman (LLB 2004; BEc 2004) practised international arbitration law at Allen Overy in London for five years and now works for White & Case managing their global arbitration practice. He writes that he is now based in New York and is enjoying everything this city has to offer. Former classmates can contact him at john@templeman.com

Philip Weinstein (MA 2008) is the Dean of Graduate Studies at the University of South Australia. He previously was the Head, UWA's School of Public Health. Former classmates can contact him at philip.weinstein@unisa.edu.au

Helping to save the honey possum

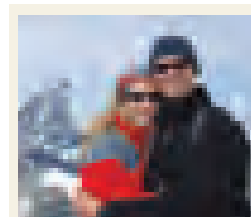
Felicity Bradshaw (MSc 1984) has retired from active research in the laboratory and the field, as the Research Officer for Professor Don Bradshaw (now Emeritus), but she has a passion for communicating their findings on the tiny honey possum. Twenty years of physiological research into this secretive marsupial, unique to the south-west corner of WA, has added considerably to our understanding of its biology. But, as Felicity states, "probably more informative for me has been the revelation of its vulnerability. Here is the tiniest creature that has evolved undisturbed in its habitat for many millions of years, but today is facing the severe threats of land-clearing, fire and plant disease." Before it disappears from the banksia woodlands, she is determined to advertise its presence and has written a book for young children to do just that. It is an ideal gift for the inquiring young mind and is available from www.honeypossum.com.au or from felicity@honeypossum.com.au



Sarah Thomas (MB BS 2003) is working in Tasmania as an anaesthetist.



Mohd Noreffendy Jayah (BE 2003) is a drilling engineer with Petronas Cavigali Sdn Bhd (Malaysia's national oil company). He started designing exploration wells for Malaysia Exploration Team and later had the opportunity to work on drilling exploration wells in the Timor Sea. He writes that it has been an amazing experience and undoubtedly UWA has played its part in gearing him up for the challenges.



Tanya Alestalo (née Stewart) (BSW 2009) and **Ian Alestalo** (BSc 1998) got engaged on their 10th year anniversary and were married last October. For the past two years, Tanya has been working as a social worker at the Alma Street Centre with adults with acute and enduring mental illness. Most recently, Ian has been working as a building supervisor. They now live in Squamish, Canada and former classmates can contact them at tanya_77@yahoo.com

Hassan Zaghloul (PhD 2009) works as the Principal Structural Engineer, Technical Authority (Structures and Lifting) for Woodside Energy Ltd.

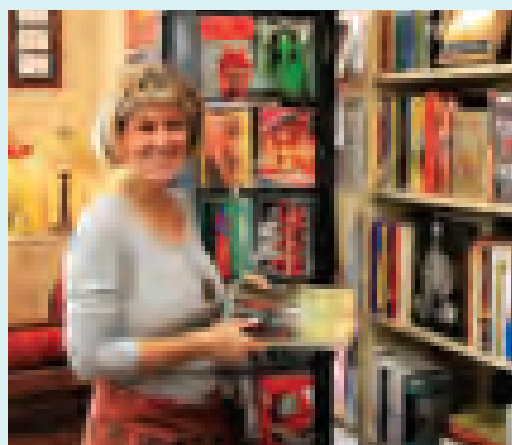
Fighting for Freo



"It is dusk, after a hot summer afternoon in 1973. Les Lauder, the feisty Fremantle community activist, is returning to his home in Ellen Street... He is in for a shock."

It reads like a mystery novel, but it is the story of the Fremantle Society and how a group of passionate citizens saved the historic port town. *Fighting for Fremantle* is the first joint project of UWA graduates and former staff members **Ron** and **Dianne Davidson**. *Fighting for Fremantle*, published by the Society with Fremantle Press, is packed full of graduates and staff who helped save the character-filled port city. It is available from the Fremantle Society (email secretary@fremantlesociety.org.au).

'Dream' cafe wins business award



UWA graduate **Karen Kotze** realised a dream when she opened her bookstore cafe *The Bodhi Tree* last year. After five years of planning and running the business as an online bookstore, the Mt Hawthorn premises is now providing a great selection of books and an additive-free vegetarian café. *The Bodhi Tree* was winner of the Sensus Social Responsibility Award in the 2010 Telstra WA Business Awards.

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